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1947

49th
Year

Gould's

SEED ANNUAL



R. L. Gould & Company
Seedsman Since 1898

496-502 JACKSON ST.

Phone
Garfield 5377

ST. PAUL 1, MINN.



A Fine Lawn Creates An Atmosphere Of Refinement

Prices Quoted
Are Not Postpaid

LAWN GRASS SEED

Include Postage
With Mail Orders

A fine lawn is the most important feature of the home grounds. A beautiful lawn not only adds to the value of the home but imparts an air of dignity and refinement. Nothing sets off the house so well as a properly made, and well kept lawn.

To maintain a good lawn, the regular feeding of fertilizer is necessary in spite of all the seed you may apply. Otherwise the lawn will gradually starve for want of plant food and take on a lifeless appearance; easily subject to winter-killing. Good seed and regular feeding will do wonders in keeping the lawn fresh and green. See special fertilizer page for lawn fertilizers.

Super Lawn Grass Seed

For nearly 50 years we have been mixing our Reliable Lawn seeds—all now treated with hormone for quick, strong growth. We use only the very best grass seed obtainable in our mixtures, and if it were possible to make a better mixture, we would do so in our Reliable Lawn Seed. It's of super-quality. You will marvel at the wonderful grass you will get from our Reliable Lawn Grass Mixtures, treated with Rootone hormone powder.

Gould's Reliable Terrace Lawn Seed

Treated With Rootone Hormone

A variety of grasses for embankments, terraces and steep hill-sides, that grow long, strong, spreading roots so as to withstand heavy rains from washing out the sod or soil. The deep-rooted grasses not only prevent heavy rains from washing it out, but also resist drought to a marked degree. Seed should be sown heavier than recommended for regular mixtures.

1 lb.	\$1.00	5 lbs.	\$4.75	25 lbs. ...	\$22.00
2 lbs.	1.95	10 lbs.	9.00	100 lbs. ...	85.00

Gould's Reliable Lawn Grass Seed With Clover Treated With Rootone Hormone

Gould's Reliable Grass Mixture is the result of our many years of experience in the mixing of different grass seeds that will produce a quick, thick, permanent sod of deep-rooting grasses to withstand our northern winters. It is composed of clean, heavy seed of the highest purity and vitality. For new lawn, sow at the rate of 1 lb. to 150 square feet.

1 lb.	\$1.15	5 lbs.	\$ 5.25	50 lbs. ...	\$47.50
2 lbs.	2.25	10 lbs.	10.00	100 lbs. ...	90.00
3 lbs.	3.25	25 lbs.	24.00		

Gould's Reliable Lawn Grass Seed Without Clover Treated With Rootone Hormone

This mixture is identical to the above Lawn Grass Mixture excepting that it contains no clover, but instead an added amount of Blue Grass.

1 lb.	\$1.10	5 lbs.	\$5.00	25 lbs. ...	\$23.50
3 lbs.	3.15	10 lbs.	9.75	100 lbs. ...	88.00

Gould's Reliable Shady Lawn Grass Seed

Treated With Rootone Hormone

Where trees or houses shade the lawn the greater part of the day and keep out the sun, it is a problem to get grass to grow. Growing grass in shaded places seems at times almost hopeless, but this is often due to planting the wrong kind of seed. Ordinary grass seed mixtures will not make a good growth where there is little or no direct sunlight. In Gould's Shady Lawn Grass we have combined a special mixture of those varieties of grass seeds that do well in the shade. Sow at the rate of 1 pound to 150 square feet for new lawn.

1 lb.	\$1.15	5 lbs.	\$ 5.25	25 lbs. ...	\$24.00
2 lbs.	2.25	10 lbs.	10.00	100 lbs. ...	90.00



Beautiful Minnesota State Capitol in St. Paul—expansive lawns seeded with Gould's Super Lawn Seed mixtures.

Como Park Lawn Grass Seed

This is a mixture of re-cleaned seed for those who want a good low-priced lawn seed. Como Park is not as high grade as Gould's Reliable Lawn Seed, but is a good mixture at the price. It will grow quickly and form a permanent sod. Sow at the rate of 1 lb. to 100 square feet, for new lawn.

1 lb.	\$0.60	10 lbs.	\$5.00	50 lbs.	\$23.00
2 lbs.	1.15	25 lbs.	12.00	100 lbs.	45.00
5 lbs.	2.75				

Home Lawn Grass Seed

A mixture of grasses similar to Como Park. Seed at the rate of 1 lb. to 100 square feet, for new lawn.

1 lb.	\$0.60	10 lbs.	\$5.00	50 lbs.	\$23.00
2 lbs.	1.15	25 lbs.	12.00	100 lbs.	45.00
5 lbs.	2.75				

Special Lake Shore Mixture

This mixture is especially desirable for lake shores and around summer cottages where it is not always possible to give the best of care in establishing a lawn. Seed at the rate of 1 lb. to 200 square feet of new lawn.

1 lb.	\$1.00	5 lbs.	\$4.50	25 lbs.	\$21.50
2 lbs.	1.90	10 lbs.	8.75	100 lbs.	\$5.00

White Dutch Clover

This is the best small leaved clover for lawns. Clover adds humus and nitrogen to the soil. Does well on all soils. Especially valuable in lawns that cannot be watered regularly. $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 85c; 1 lb., \$1.50; 2 lbs., \$2.90; 5 lbs., \$7.00; 10 lbs., \$13.00. Postage extra on mail orders.

Kentucky Blue Grass

This hardy perennial grass is one of the very best for our Northern climate and the base for most good lawn seed mixtures. Forms a dense sod but is very slow to germinate. It is advisable to mix red top or rye grass with Blue Grass when sowing, to act as a nurse crop. In established lawns Blue Grass can be sown alone. 1 lb., \$1.50; 2 lbs., \$2.95; 3 lbs., \$4.35; 5 lbs., \$7.00; 10 lbs., \$13.50; 25 lbs., \$33.00; 100 lbs., \$130.00.

Red Top

Makes an excellent sod but is not as permanent as Blue Grass when clipped close. Germinates quickly and for that reason makes an excellent nurse crop to sow with Blue Grass. 1 lb., 65c; 2 lbs., \$1.25; 3 lbs., \$1.50; 5 lbs., \$2.25; 10 lbs., \$4.00; 25 lbs., \$9.50; 100 lbs., \$35.00.

EROSIONET. For covering newly seeded slopes. A rot-resisting, open-mesh fabric. 45 in. wide, 18c a running yard.

Black Earth

Genuine high mineral earth. Load, more than two yards, \$6.00; delivered in St. Paul.

Seaside Bent

Seaside is a consistent surface creeping variety. It is of a rather bright green color, and does not grow very tall because of its trailing habit of growth. It spreads rapidly and forms a matlike sod quickly. Sow at the rate of 3 lbs. to 1,000 square feet. 1 lb., \$2.00; 5 lbs., \$9.50; 10 lbs., \$17.50; 25 lbs., \$40.00.

Astoria Bent

The Astoria Bent produces underground creepers, usually by rhizomes, several inches deep, and has considerable more upright growth than the Seaside. The grass is somewhat longer and not as wide and of a darker green color. Is better suited to well-drained soils. Seed at the rate of 3 lbs. to 1,000 square feet, for new lawn. 1 lb., \$2.00; 5 lbs., \$9.50; 10 lbs., \$17.50; 25 lbs., \$40.00; postage extra.

CREEPING BENT GRASS PLUGS

One of the few hybrid strains of Bent Grass that is perfectly hardy here in the Northwest. Needs only ordinary care. These Bent sod plugs should be planted one foot apart. In about three to four months they will spread and make a solid, deep green turf. One carton plants 100 square feet. 1 carton, \$1.45; 2 cartons, \$2.75; 5 cartons, \$6.50; 10 cartons, \$12.00.

CREEPING BENT STOLONS

For anyone who prefers to plant stolons, a new lawn can be developed in about three months after planting. Enough for 300-500 sq. ft., \$4.00.

Rye Grass

A very quick growing grass that makes a green lawn in a short time. Does not live as long as Blue Grass. Used mostly as a nurse crop. 1 lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.50; 25 lbs., \$5.50; 100 lbs., \$20.00.

Chewings Fescue

Produces a mass of fine blades, spreading to a solid compact turf. Does well in poor or sandy soils and in the shade. Very drought-resistant. 1 lb., \$1.45; 5 lbs., \$7.00; 10 lbs., \$12.00.

Crested Wheat Grass

A hardy perennial and very drought-resistant bunch grass. Grows profusely in cool weather. Ideally adapted for controlling erosion on dry and steep slopes. Deep rooting. Sow at the rate of one pound to 400 sq. ft. In very short supply. Please write for price.

Poa Trivialis

A fine bladed perennial grass of the Blue Grass family that thrives in the shade. 1 lb., \$1.75; 5 lbs., \$8.50; 10 lbs., \$16.00.

GARDEN FOR FOOD, HEALTH AND GOOD LIVING

The President of the United States in a statement last fall said, "That gardening would help make a better America by furnishing more nutritious foods, improving home surroundings, and aiding community developments." . . .

The relaxing health-building exercise, the production of much vitamin, health-giving food, has done wonders to so many in the back yard garden . . . This year the food element is not quite as serious a problem, yet there is still nothing like getting fresh vegetables from your own garden. The money saved is no small item. But best of all, you eat more of these health-building vegetables when you have them growing at home. They put pep into you in a miraculous way. Plant a garden again this year. It will pay you big dividends. Flowers will add charm and adventure to your garden and home surroundings.



Prices All prices quoted in this catalog are subject to change without notice. We have endeavored to put in ample stocks on all items listed in this book, but the uncertainty of replacement prices as in normal times, makes it impossible to maintain all prices. We reserve the right to fill all mail orders at prevailing prices, when received.

Gould's "Garden For Health" Planting Chart

FOR THE SMALL VEGETABLE GARDEN

NOTE—*Denotes the quantity of seed that should raise sufficient plants to transplant into a row 100 feet long. The seed should be sown in hotbed, later transplant to cold frame, or sow the seed in a prepared seedbed in the open when danger from frost has passed.

Variety	Seed required for 100 ft. row	Plant rows apart	Plants apart in rows	Time of planting in open ground	Matures in about
Asparagus, Seed.....	2 ozs.	1 to 2 ft.	3 to 5 in.	Early spring	3 to 4 years
Asparagus Plants.....	60 plants	30 to 36 in.	18 in.	Early spring	1 to 3 years
Beans, Bush.....	1 lb.	15 to 24 in.	2 to 3 in.	May to July	45 to 70 days
Beans, Pole.....	½ lb.	3 to 4 ft.	3 to 4 ft.	May and June	65 to 90 days
Beets.....	2 ozs.	12 to 16 in.	3 to 4 in.	April to Aug.	55 to 70 days
*Brussels Sprouts.....	1 pkt.	24 to 30 in.	16 to 24 in.	May and June	90 to 110 days
*Cabbage, Early.....	1 pkt.	24 to 30 in.	12 to 18 in.	April and May	65 to 80 days
*Cabbage, Late.....	1 pkt.	24 to 36 in.	16 to 24 in.	May and June	90 to 110 days
Carrot.....	½ oz.	12 to 15 in.	3 to 4 in.	April to June	70 to 100 days
*Cauliflower.....	1 pkt.	24 to 30 in.	24 to 30 in.	April to June	54 to 70 days
*Celeriac.....	1 pkt.	14 to 24 in.	2½ to 3 in.	May and June	120 days
*Celery.....	1 pkt.	6 in.	4 to 8 in.	May and June	115 to 130 days
Corn, Sweet.....	¼ lb.	30 to 36 in.	15 to 24 in.	May to July	60 to 100 days
Cucumber.....	1 pkt.	4 to 6 ft.	4 to 6 ft.	April to July	60 to 80 days
*Eggplant.....	1 pkt.	24 to 36 in.	24 to 30 in.	April and May	85 to 90 days
Endive.....	½ oz.	18 in.	8 to 12 in.	April to July	90 days
*Kale, or Borecole.....	1 pkt.	18 to 24 in.	18 to 24 in.	August	55 to 60 days
*Kohl Rabi.....	1 pkt.	15 to 24 in.	6 to 8 in.	April and May	60 to 80 days
Leek.....	½ oz.	12 to 16 in.	4 to 8 in.	April and May	120 to 180 days
Lettuce.....	1 pkt.	10 to 15 in.	6 in.	April to Sept.	45 to 85 days
Melon, Musk.....	1 pkt.	6 to 8 ft.	Hills, 6 ft.	April to June	80 to 115 days
Melon, Water.....	1 oz.	8 ft.	Hills, 6 ft.	May and June	70 to 100 days
Mustard.....	1 pkt.	12 in.	3 in.	April and May	60 to 90 days
Okra, or Gumbo.....	2 ozs.	3 to 4 ft.	24 to 30 in.	May and June	50 to 60 days
Onion Seed.....	½ oz.	12 to 18 in.	1½ in.	April and May	102 to 115 days
Onion Sets.....	2 qts.	12 in.	1½ to 2 in.	April to July	30 to 60 days
Parsley.....	1 pkt.	12 to 14 in.	6 in.	Early spring	90 to 120 days
Parsnip.....	½ oz.	18 in.	3 in.	April and May	85 to 95 days
Peas.....	1 lb.	15 to 18 in.	2 in.	April to June	50 to 80 days
*Pepper.....	1 pkt.	24 to 36 in.	15 in.	May and June	55 to 80 days
Potato, Irish.....	½ peck	24 to 36 in.	15 in.	April to June	80 to 140 days
Pumpkin.....	1 pkt.	8 to 10 ft.	Hills, 8 ft.	May to July	100 to 120 days
Radish.....	1 oz.	6 to 12 in.	2 in.	April to Sept.	20 to 70 days
Rhubarb Plants.....	33 plants	3 to 5 ft.	3 ft.	Early spring	1 to 3 years
Rutabaga.....	1 pkt.	18 to 24 in.	6 to 8 in.	May and June	85 to 95 days
Salsify.....	1 oz.	18 to 24 in.	4 in.	Early spring	150 to 180 days
Spinach.....	1 oz.	12 to 18 in.	4 in.	Early spring	30 to 60 days
Spinach, New Zealand.....	1 oz.	24 to 36 in.	12 to 18 in.	Early spring	70 days
Squash, Bush.....	1 pkt.	3 to 4 ft.	Hills, 3 to 4 ft.	April to June	50 to 65 days
Squash, Late.....	1 pkt.	7 ft.	Hills, 7 ft.	April to June	55 to 110 days
Swiss Chard.....	1 oz.	16 in.	12 in.	April to Aug.	60 days
*Tomato.....	1 pkt.	3 to 4 ft.	18 in.	May and June	95 to 130 days
Turnip.....	1 pkt.	18 in.	3 in.	April to July	45 to 70 days
Witloof Chicory, or French Endive.....	½ oz.	12 to 15 in.	3 to 4 in.	April and May	Fall and Winter

ASPARAGUS SEED

CULTURE. To start an asparagus bed from seed, sow 1 oz. to 50 feet of row early in the spring and transplant roots to permanent bed the following spring.

Mary Washington★f

One of the best of the rust-resistant varieties. A very vigorous grower, producing large succulent stalks of excellent quality. We recommend the Mary Washington as the best variety for the home or market gardener. Shoots color to a dark green with purple shades at tip. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

Paradise Asparagus

One of the newer varieties, very similar in appearance to the Washington. Is highly rust-resistant and a heavier producer. Grows a larger crop a full year earlier. Shoots are large and green and of finest quality. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00.**

PARCEL POST RATES FROM ST. PAUL

On 8 oz. or less of seeds, plants or bulbs, the rate is 1c for each 2 oz., for other goods, 1½c for each 2 oz.; regardless of distance. Rates for packages over 8 oz., given below. Weight limit 70 lbs., any zone.

	First pound or fraction	Each additional pound or fraction
Local, St. Paul.....	8c	1c (2 lbs.)
First & Second Zone within 150 miles	9c	1.1c
Third Zone within 150 to 300 miles..	10c	2.9c
Fourth Zone within 300 to 600 miles	11c	3.5c
Fifth Zone within 600 to 1,000 miles.	12c	5.3c
Sixth Zone within 1,000 to 1,400 miles	13c	7c

Asparagus Roots Listed on Page 45.

BEANS

CULTURE. To obtain a continuous supply of beans throughout the season, make plantings every two weeks from about May 10th to July 1st. Beans should be planted in rows 15 to 18 inches apart, thinning in the row to 3 or 4 inches apart. Do not cultivate or pick beans when plants are moist from dew or rain as this causes the spread of rust or Anthracnose, thereby curtailing the production. Plant about 1 to 2 inches deep depending upon the condition of the soil.

The varieties marked with an italic *f* are those best recommended for freezing.

DWARF WAX VARIETIES

Univalled, or Everbearing Wax★

53 TO 55 DAYS. A hardy and prolific mid-season variety. The vines are small and compact, producing a heavy crop of handsome, pale yellow, long, semi-round pods of highest quality. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Davis Kidney Wax 52 to 55 days
Pods uniform, about 7 inches long. Seed pure white, of kidney shape, producing a large, flat, straight pod of fine appearance. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**



Tendergreen

DWARF GREEN PODDED VARIETIES

Bountiful★f 48 days **Streamliner f** 55 days
One of the earliest of the green podded beans. The pods are large, flat and slightly curved, of a light green color and stringless. A heavy bearer. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Tendergreen★f 54 days
An excellent market gardener bean as well as for the home garden. Plants are strong and vigorous, bearing attractive medium dark green pods 7 in. long. Pods are round, meaty, tender, stringless. Plants of upright growth and heavy producers. Seed brown mottled with fawn. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

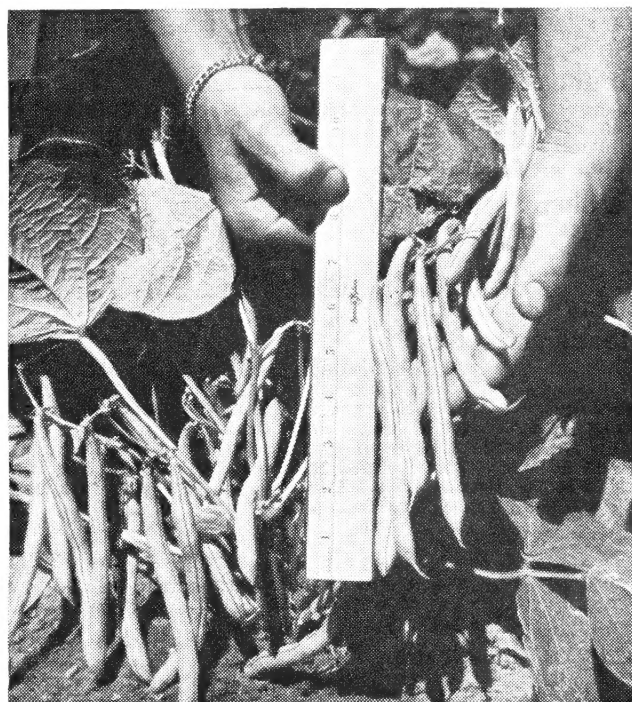
Stringless Refugee, Improved 1000 to 1 f 70 days
A very productive mosaic resistant, hardy, late variety. Pods are long, semi-round and slender, very much in demand for late market home garden and canning. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Plentiful★ 48 days
This is a green, flat-podded bush bean, an improved variety of the Bountiful type. Pods are brittle, stringless, straight to curved at tip and 7 inches long under normal conditions. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Stringless Green Pod f 53 days
The finest green bean for home garden use. Has green pods, which are perfectly round, straight, tender, brittle and entirely stringless. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Giant Stringless Green Pod★f 55 days
An excellent variety to follow Stringless Green Pod, being later and larger withstands heat and is a heavy producer. A good bean for canning. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Logan★f 52 days
A new bean of the Tendergreen Type, highly resistant to common Mosaic, powdery mildew and blight. Pods dark green, stringless, 6 to 6½ in. long. Shape round, slightly curved. Closest resemblance to Longfellow that we know of. Very prolific. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**



Logan Beans

Stringless Black Valentine 49 days
Pods are long, nearly round, straight and of good quality. Beautiful dark green pods are about 6 inches long. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Gould's Reliable Black Wax★ (Sure-crop)

53 TO 55 DAYS. This is an early wax bean for the market. The pods are 6½ inches long, flat, straight and stringless. It is a good yielder and attractive. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Gould's Reliable Kidney Waxf (Brittle Wax)

52 TO 55 DAYS. An excellent early, finest quality, round podded variety for the home garden and canning. It is very tender and absolutely stringless. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.00; 10 lbs., \$3.75.**

Improved Golden Wax 48 to 50 days

A well-known home garden variety. Bears an abundance of large semi-flat pods slightly curved. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

Pencil Pod Black Wax 52 to 55 days

One of the best, long, round podded varieties; very early, prolific, stringless and of excellent quality. **Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.**



Inoculate beans with Nitragin. Increases yield immensely. Garden size 10c.

POLE BEANS

CULTURE. Pole varieties are less hardy than the bush varieties, and must not be planted until the weather is settled and the ground warm. Set the poles about two to three feet apart, and in each hill plant six to eight beans, thinning when well started to the four strongest. A packet plants 15 hills; 1 lb., 100 hills.

Kentucky Wonder or Old Homestead 65 days
This climbing variety is very vigorous and productive and bears its pods in large clusters. The pods are green and almost round, often measuring 8 to 10 inches long. They are nearly stringless, very tender and bear all summer. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.

Potomac 65 days
A new pole bean that has all the qualities of heavy yielding growth that Kentucky Wonder has but pods have the tenderness of the bush beans. Stringless, almost round pods, straight and slender, 6 to 7 inches long. Train to fence or pole. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.

Kentucky Wonder Wax 68 days
Similar to the green-podded Kentucky Wonder, but pods are broader and light yellow, tender and stringless. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.00.

Scarlet Runner 65 days
A bean that is edible as well as ornamental. It is a fine climber, quick growing. Pkt., 10c; ½ lb., 30c; 1 lb., 50c.

Beans are postpaid only in packets. In larger amounts add postage at the Parcel Post rates given on page 3.

BANSEI EDIBLE SOY BEANS

Differ from the field varieties in that they are palatable for human consumption—really delicious. You can cook up the early tender pods like string beans. Another way to make shelling easier, cover the pods with boiling water, let stand for five minutes, then drain and shell. To one pint of hulled beans add one pint of boiling water and ¾ teaspoonful salt, cover and cook for 10 minutes after boiling starts. Avoid overcooking. Drain and season with butter. Bansei, Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

LIMA BEANS

CULTURE. Limas should be planted a little later than the other running beans, in the most favorable location possible, as they are very late in maturing. Always plant with the eye down. The Bush Lima is more easily grown than the tall, and is earlier and more economical of space. The Pole Limas yield heavier.

Burpee's Improved Bush Lima 75 days
The most popular of the Bush Lima type. Bushes grow 18 to 24 inches high, two to three feet in diameter. The pods contain 4 or 5 large, pale green beans. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.

Fordhook Bush 75 days
Exceedingly popular with market gardeners. The pods are about 5 inches long, each having 4 or 5 large, oval-shaped green beans of fine quality. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.

Fordhook No. 242 72 days
A 1945 introduction that has been well received by commercial growers. It is of similar type to the standard Fordhook, but both early yields and total yields are heavier. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.

Henderson's Bush 65 days
This is the earliest small Bush Lima. It is known as "Baby Lima" and also as "Butter Bean." Plants are of medium size, dark green, bearing pods about 3 inches long containing 3 to 4 small flat beans with an attractive greenish tint and a most delicious flavor. Can also be used as a shell lima. In our opinion, this is the best all round lima. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75; 10 lbs., \$3.25.

Thorogreen 68 days
A new green seeded small Bush Lima of the Henderson type. A strong grower and good producer. Good for canning and freezing. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75.

King of the Garden Pole Lima 88 days
The vines are very vigorous and prolific. Pods are of large size filled with 4 or 5 large pale green beans of very fine quality. A popular market garden variety. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$1.75.

Broad Windsor 74 days
A green shell bean, long podded type. Pod not edible. Large, erect plants. Pods of glossy green, 5 inches long, 1½ inches broad, 5 to 7 seeded, smooth. Green beans broad and flat, used similar to limas. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c.

FIELD BEANS

CULTURE. Beans thrive on most all soils, but better results are gained by the liberal use of fertilizer or planting in light, rich, well-drained loam. Beans are extremely sensitive to frost and moisture.

Red Kidney (Dark) 95 days
Vine grows about 20 inches long containing 5 to 6 red kidney-shaped beans. Pods 6 to 7 inches long, flat, broad, straight. Fine for baking, chili and soups. ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50.

Brown or Swedish 95 days
This is a fine field bean of a light brownish color and medium size. Very fine for baking. ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25.

Michelite Navy 92 days
This is a highly recommended new strain. Has better white color, uniform seed size, less loss in hand pick, disease resistant, matures earlier and yields heavier than other old Navy types. ½ lb., 20c; 1 lb., 30c; 2 lbs., 50c; 5 lbs., \$1.10; 10 lbs., \$2.00.

Choice Navy 90 days
This is a much improved strain of the old popular white baking bean. It is smaller in size and more round, but is highly recommended on account of its heavy yield and disease-resistant quality. ½ lb., 20c; 1 lb., 30c; 2 lbs., 50c; 5 lbs., \$1.10; 10 lbs., \$2.00.

Great Northern 96 days
A large navy bean which is giving splendid results. The seed is large, flat and slightly kidney shaped. It is a fine baker and is sometimes used as a small lima. ½ lb., 20c; 1 lb., 30c; 2 lbs., 50c; 5 lbs., \$1.10; 10 lbs., \$2.00.

BEETS

CULTURE. Any well-prepared light garden soil will produce good beets, although a rich, sandy loam brings the best results. Sow the seed about 1 inch deep in rows 15 to 24 inches apart. When plants are about 6 inches high they should be thinned to 3 or 4 plants to the foot. Those taken out at this time make excellent greens.

Crosby's Egyptian 55 days
A splendid extra early beet of slightly flattened globe shape. It is sweet and tender and a much desired table beet. Crisp, tender, of dark purplish red color. Tops fine for greens. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.

Green Top Bunching 58 days
An early, very attractive variety for bunching. The tops remain green even late in the fall. The roots are nearly round during early growth, but at maturity are slightly flattened; exceptionally smooth, deep red in color. The interior is bright blood-red practically free from zoning. A most desirable bunching variety. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.

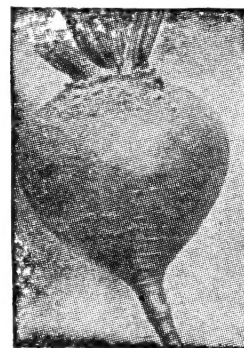
Detroit Dark Red 58 days
This well-known variety is very popular among market gardeners and canners as well as being an ideal variety for the home garden. The roots are very dark red in color, uniform in shape and of excellent quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.

Edmand's Blood Turnip 60 days
A fine turnip-shaped blood beet. Skin and flesh are of a deep red. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.

Early Wonder 52 days
An extra early beet of special merit. Roots are nearly globe shaped, slightly flattened; skin dark red, flesh deep blood red with very little zoning, and of finest quality. Tops are small and ideal as a bunching beet. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.

Gould's Early Bunching Beet 51 days
An outstanding variety that matures earlier than any other beet. The color is deep dark red all the way through without zoning. Roots are smooth, perfectly globular, of uniform shape and size, with slender tap roots. Tops are medium and just right for bunching. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.

Gould's Reliable Red Beet 60 days
Is especially selected for its uniformity in size, shape and color, being a very dark red. We do not hesitate to recommend it either for market or home garden. It grows to a large size and finest quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.



Detroit Dark Red Beet

MANGEL-BEETS (For Stock Feeding)

CULTURE. Sow six pounds to the acre in rows three feet apart, and thin to nine inches in the row. Seed should not be sown until the ground is warm and the weather fully settled. Shallow planting is desirable because the seed germinates more quickly and a larger proportion will make more vigorous plants than when planted deeply. Deeper planting will be required on sand lands or when the soil is dry. Cultivation should begin within a day or two from planting. Sow one inch deep. Mangels, when fed in combination with grain, are worth almost as much, pound for pound, as the grain. Experience has proved that mangels so aid digestion and assimilation, by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed besides the nutrients the roots contain. Mangels, when fed to cows, materially increase the flow of milk.



Improved Mammoth Long Red Mangel

Giant Red Eckendorf 105 days
The roots are red in color, smooth, long and cylinder shaped. They grow to enormous size, weighing up to 15 and 20 pounds each. The flesh is firm and of high feeding quality. **Pkt., 10c; 1 oz., 20c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50.**

Imp. Mammoth Long Red 110 DAYS. Is a selection of the very best type of long red mangel. The roots are extra large, often 20 to 24 inches in length, weighing from 14 to 20 lbs. Roots are uniformly straight and well formed, the flesh is white tinged with rose. Easily harvested as roots grow ½ inch or more out of the ground. Our Improved Mammoth Long Red is the best Mangel for poultry feeding. **Pkt., 10c; 1 oz., 20c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.**

Seed are postpaid only in packets. In larger amounts add postage at the Parcel Post rates given on page 3.

Giant Feeding Half Sugar (White) 90 days
Is a very large growing sugar beet. A heavy yielder, an excellent feeder, but is not fit for sugar production. Yields nearly as heavy as do other mangels, but supplies for stock feeding a food of very much higher nutritive value. A most excellent feed for stock and poultry. **Pkt., 10c; 1 oz., 20c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.**

Gould's Reliable Sludstrup Barres 110 days
It is a reddish yellow color, is very hardy and grows well above ground. Flesh white with faint yellow tinge. A heavy yielder. **Pkt., 10c; 1 oz., 20c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.**

Improved Golden Tankard 100 days
A popular, productive mangel adapted to shallow land, although doing well on every soil. Tankard shaped, golden skin, flesh yellow zoned white and very sweet. **Pkt., 10c; 1 oz., 20c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.**

SUGAR BEETS

Gould's Reliable (U. S. Strain) 90 days
We consider this to be one of the very best sugar beets for sugar production. Is rich in sugar content, also valuable for stock feeding—rich in vitamins. **Pkt., 10c; oz., 20c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.**

BROCCOLI

Broccoli is rich in Vitamins A and C, also high in Vitamin G.

Italian Green Sprouting f 70 days
A delicious vegetable, with a distinctive flavor. Cook and serve the same way as asparagus or cauliflower. Forms a large, compact, bluish-green head. After this is cut, the plant produces numerous tender side shoots, each bearing a small head. Continues to bear from 8 to 10 weeks. By successive planting it may be enjoyed right up to freezing weather. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00.**

BRUSSELS SPROUTS

Long Island Improved f 90 days
Small heads or sprouts about one to two inches in diameter form on the stocks at each leaf joint. These may be boiled or creamed like cabbage or cauliflower. **Pkt., 10c; oz., 65c.**

CABBAGE

Cabbage is one of the best vegetable sources of Vitamin C—also rich in Vitamins B and G. Green leaves are ten times as rich in Vitamin A as white bleached leaves. Help to keep your digestion, glands, nerves and organs in tone. As a tonic, food, and medicine, it is one of Nature's best.

YELLOWS RESISTANT VARIETIES LISTED ON PAGE 6.

CULTURE FOR EARLY CABBAGE. Seed of the early varieties should be sown ¼ of an inch deep in a greenhouse, hotbed, or in boxes in the house, about 6 weeks before the plants are needed for planting out. One-fourth pound of seed produces enough plants for one acre.

If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained. As soon as the soil can be worked in the spring the plants should be removed to the open field and set in rows 2 feet apart each way.

CULTURE FOR LATE CABBAGE. The seed may be sown in rows one foot apart or broadcast in the garden, about the middle of May, and the plants set in the field in June.

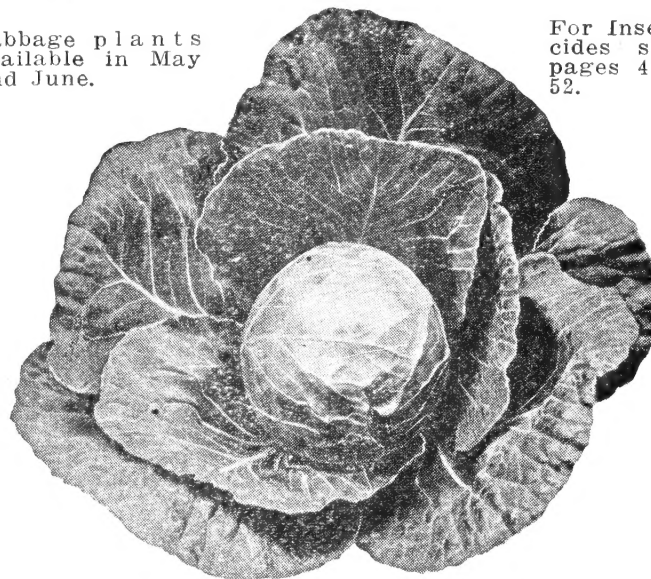
Early Jersey Wakefield 62 to 65 days
The earliest cabbage grown. Heads are very solid and conical in shape with very few outside leaves, which permits closer planting. Fine for home or market gardens. **Pkt., 10c; oz., 40c; ¼ lb., \$1.00; 1 lb., \$3.00.**

Golden Acre* 63 to 65 days
An early round head variety of the Copenhagen Market type, which heads up ahead of Copenhagen. This excellent variety heads very uniformly, producing a hard head which does not burst easily and which stands shipment well. This is one of the most valuable contributions to our list of cabbage varieties. **Pkt., 10c; oz., 45c; ¼ lb., \$1.15; 1 lb., \$3.50.**

Copenhagen Market* 68 days
Heads grow upon a short stem, are solid and large, often weighing from 8 to 12 pounds. It is the largest of the early round-headed varieties. Its quality is extra fine and sweet. The leaves are light green, rather small, saucer-shaped and tightly folded. Excellent for early market and early kraut. **Pkt., 10c; oz., 40c; ¼ lb., \$1.00; 1 lb., \$3.00.**

Cabbage plants available in May and June.

For Insecticides see pages 49 to 52.



Copenhagen Market Cabbage

All Seasons 85 to 90 days
It does well planted at all seasons. An excellent variety for fall and winter use. Fine for kraut. The heads are somewhat flattened but nearly round, very solid and of fine quality. The plants are very vigorous and are noted for withstanding the hot sun or a long dry spell. **Pkt., 10c; oz., 45c; ¼ lb., \$1.15; 1 lb., \$3.50.**

Late Flat Dutch 95 to 105 days
A low growing variety, heads large, bluish-green, round, solid, broad and flat on top. An excellent fall and winter variety, and a good keeper. **Pkt., 10c; oz., 40c; ¼ lb., \$1.00; 1 lb., \$3.00.**

Savoy Chieftain 90 to 95 days
The best of the Savoy or curly leaf type of cabbage. Produces a large solid head upon a short stem. Heads almost round; inside yellow to greenish yellow. It is very sweet and delicious especially after being touched by frost. A good winter keeper. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.25.**

Mammoth Red Rock 100 days
Heads are of a deep purplish red color to the very center. A hard heading variety, producing heads 6 to 8 pounds each. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.25.**

CABBAGE—Continued

Holland★ (Short Stem) 100 to 105 days

The standard winter cabbage, and most remarkable late variety, for storage or shipping purposes. The head is deeper than it is wide and of excellent quality. Pkt., 10c; oz., 45c; ¼ lb., \$1.15; 1 lb., \$3.50.

Danish Roundhead or Ballhead★ 100 to 105 days

Is an improved strain of the Danish Ballhead, being shorter stemmed and heavier. It is less liable to blight and is an excellent keeper. Crisp, sweet, tender and unsurpassed for coleslaw or boiling. Pkt., 10c; oz., 45c; ¼ lb., \$1.15; 1 lb., \$3.50.

Penn State Ballhead★ 115 days

A strain of Danish Ballhead, one of the best on the market. Heads are globe shaped slightly flattened on the top. They are very solid, weighing 8 to 9 lbs., and are excellent keepers. This variety has yielded the heaviest tonnage per acre of any Ballhead types. Pkt., 10c; oz., 45c; ¼ lb., \$1.15; 1 lb., \$3.50.

YELLOWS RESISTANT VARIETIES

Wisc. Golden Acre★ 65 days

A yellows resistant strain of Golden Acre. Early, small, round heads about six inches in diameter and average three pounds. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.25.

Resistant Detroit★ 65 to 68 days

A yellows resistant, round variety, very similar to Golden Acre, but larger leaves and plant has creamy white interior. Season about the same as Golden Acre. Pkt., 10c; oz., 75c; ¼ lb., \$2.25; 1 lb., \$7.75.

Marion Market★ 75 to 80 days

It is a selection from Copenhagen Market, is very resistant to cabbage yellows; round head and of high quality; tender and crisp fleshed, excellent for kraut. Pkt., 10c; oz., 60c; ¼ lb., \$1.50; 1 lb., \$4.50.

Wisconsin All Seasons★ 90 to 95 days

A yellows resistant strain of All Seasons. This is a short stem drumhead type of cabbage, with a reputation for heading uniformly and heavy yielding. Pkt., 10c; oz., 60c; ¼ lb., \$1.50; 1 lb., \$4.50.

Bugner★ 100 days

A large, late yellows resistant strain of the Ballhead type; semi-round and very hard. Heads weigh 8 to 10 pounds; are heavy yielders and good keepers, well adapted for kraut, late market or storage. Pkt., 10c; oz., 75c; ¼ lb., \$2.25; 1 lb., \$7.00.

Red Hollander★ 100 days

The only yellows resistant strain of red cabbage. This strain is of good color, hard, ball-shaped head and a heavy yielder. Good for mid-season or late crop. Pkt., 10c; oz., 90c; ¼ lb., \$3.00.

Wisconsin Hollander No. 8★ 100 to 110 days

A very fine strain of yellows resistant cabbage, a selection from Danish Ballhead, but forms a larger head with rather tall stem. A heavy yielder. Head tends to flatten at maturity. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

We are headquarters for cabbage plants during May and June. Prices in quantities quoted on request, or call if convenient.

CHINESE or CELERY CABBAGE

Is a delicious salad plant. It thrives best during the cooler part of the growing season, consequently is generally planted as a fall crop, usually during July. Do not plant too early. Seed should be sown where crop is to mature and the plants thinned to stand about 15 inches apart in the row.

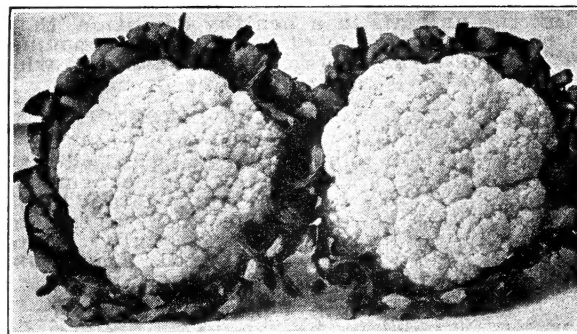
Improved Chihili (Pe Tsai) 75 to 80 days

This is the very finest of the Chinese Cabbage. The heads are long and slender, weighing from 2 to 5 pounds each. The outer leaves dark green, inner white, tender and sweet. Pkt., 10c; oz., 35c; ¼ lb., 85c; 1 lb., \$2.00.

CAULIFLOWER

The vegetables best recommended for freezing are indicated by an (f) after the name of the variety.

CULTURE. For early use, the seed should be sown indoors either in a greenhouse, hotbed or in the house about six weeks before setting out. Sow the seed ½ to ¾ of an inch deep. When plants are one or two inches high they can be transplanted to about 3 inches apart, thereby developing into stronger plants. As soon as the soil can be worked and pulverized, the plants may be set out in the open field 2 to 2½ feet each way.



Ball O'Snow Cauliflower

Ball O'Snow★f 58 days

A more vigorous type of the Snowball variety, producing larger, pure white heads of great depth, weight and unexcelled white color. This new super strain matures early. Try some of this remarkable Cauliflower this year. Pkt., 25c; ¼ oz., \$1.00; ½ oz., \$1.60; 1 oz., \$2.75; ¼ lb., \$8.50.

Snowball★f 56 days

The most popular variety for early and general crop. Produces nice snow-white heads 6 to 8 inches in diameter, of extra fine flavor. Is considered a standard by the market gardener, also very desirable for the home garden. Pkt., 25c; ¼ oz., \$1.00; ½ oz., \$1.60; 1 oz., \$2.75; ¼ lb., \$8.50.

Snowdrift★f 58 days

One of the best varieties of Cauliflower for the Market Gardener. It is early, large and makes a beautiful solid white head of excellent quality. Matures with great evenness. Pkt., 25c; ¼ oz., \$1.00; ½ oz., \$1.60; 1 oz., \$2.75; ¼ lb., \$8.50.

Super Snowball★f 57 days

One of the best varieties for general market crop. It is early, a sure cropper and very attractive. Heads are compact, medium large, pure white. Pkt., 25c; ¼ oz., \$1.10; ½ oz., \$1.75; 1 oz., \$3.00; ¼ lb., \$9.00.

CELTUCE

A new vegetable from far-off China. It is a distinct species of lettuce, but is different from ordinary lettuce in its growth and uses. The young leaves may be eaten as a salad or cooked as "greens". The center stalk, after outer skin is removed, may be eaten raw or cooked like celery or asparagus. Celtuce is delicious with a taste slightly suggesting that of celery, but different and milder. Pkt., 10c.

CHICORY

Used as a winter salad. May be used as a Cos Lettuce, and is delicious when served with salad dressing. The plants form long parsnip-shaped roots that are lifted in the fall, trimmed of leaves, and stored in soil in a cool place until wanted for forcing. Witloof, 150 days. Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

CHIVES

Are hardy perennial plants of the onion type. The tops are used for flavoring. Quicker results are obtained by setting out plants than by seeding as seedlings will not do much the first year, while the sets or plants will multiply very rapidly. Pkt., 15c; oz., \$1.50.

COLLARDS

A tall loose-leaved plant that does not form heads, but leaves similar to cabbage or kale. It is used as greens for the table. Sow seed ½ inch deep, thickly. Transplant when 4 inches high. Thin to 2 to 3 feet apart in the row.

Georgia or Southern 80 days

Grows about 2 to 3 feet tall, producing large light green leaves. Light frost improves the crop. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.



CARROTS

CULTURE. For the best results the soil should be well worked to a good depth. For early use sow seed in rows 15 inches apart as early in the spring as the soil can be worked, sowing about 2 lbs. of seed per acre and cover the same with $\frac{1}{2}$ inch of soil; but for main crop, sow a b o u t corn planting time, using 3 lbs. of seed per acre and the seed should be covered with nearly an inch of soil. One ounce of seed will sow 200 feet of row. Make the rows two feet apart to allow for cultivation. When the plants are 3 inches high thin to 3 inches apart in the row.

Red Cored Danvers

Red Cored Danvers*

75 days

An improved strain of Danvers. Root longer, slimmer and more refined than old strain. Flesh deep orange with small indistinct core. Excellent quality, adapted for market and home garden. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

Chantenay*f (Select Stock)

68 days

The Chantenay Carrot has been the favorite with the home and market gardeners for many years. Our select seed is recommended as best for general use. The flesh is of a beautiful orange color and of fine texture, tender and very sweet. About six inches long. Fine for bunching. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

Imp. Danver's Half Long*

75 days

Is a well-known stump rooted variety. The root is of a rich dark orange color, smooth and heavy yielding, making it very desirable for both marketing and stock feeding. Roots will grow to 7 or $7\frac{1}{2}$ inches in length. This is an excellent bushel carrot and one of the most popular of American varieties. Grows a little longer and larger than Chantenay. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

Coreless (Scarlet)

65 days

This variety of exceptional quality is recommended for its earliness, sweet mild flavor and uniformity in shape. The roots are very smooth, average about 5 to 6 inches in length. The flesh is an attractive rich orange red color, sweet, tender, devoid of stringiness. A good keeper. **Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 90c; 1 lb., \$2.25.**

Half Long Scarlet Nantes*f

65 days

Almost coreless, brittle, and fine grained with mild sweet flavor. Roots are of reddish orange color, and 6 to 7 inches long when mature. It is one of the finest carrots grown for market or the home gardener. **Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 90c; 1 lb., \$2.25.**

Oxheart or Guerande

72 days

Earlier than the Danver's but only $2\frac{1}{2}$ to 3 inches long, easily lifted from the ground. The flesh is bright orange, fine grained and sweet. An excellent carrot for home use or stock feeding. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

Oregon Chantenay*

72 days

A special strain selected from Chantenay which produces very smooth roots about one inch longer than regular Chantenay and of more even diameter the whole length of the carrot. It has proven popular with market gardeners and shippers. It is the best carrot for early bunching. The roots are deep orange with small core. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

Imperator*f

74 days

Very attractive roots 7 to 8 inches long, slightly tapering. Sloping shoulder with slender tops firm enough to bunch well. The color is deep orange which extends to the center with a very small core. Specially adapted to peat land. Sow late for fall crop. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

Improved Long Orange

85 days

A heavy yielder for light soils when roots may be easily dug. Roots are orange scarlet, fairly thick and as a rule grow entirely underground, thus having no green shoulder. 10 to 12 in. long when matured. Fine for table or stock. **Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 75c; 1 lb., \$1.95.**

Mastodon or Improved Short White

85 days

Roots half long, 7 to 9 inches in length, smooth, very heavy at shoulder and tapering to point. Color creamy white with light green crown. White flesh, solid, crisp, and of excellent quality for stock feeding. **Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 90c; 1 lb., \$2.50.**

Yellow Belgian (Stock Feeding)

90 TO 100 DAYS. A large yellow stock carrot, by far the largest yellow carrot grown. The roots are exceptionally fine for all kinds of stock feeding, possessing high feeding properties. It is a heavy cropper on all kinds of soil, but is especially adapted for rich, sandy loam. **Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 90c; 1 lb., \$2.50.**

Maturity Figures

After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.

CELERIAC

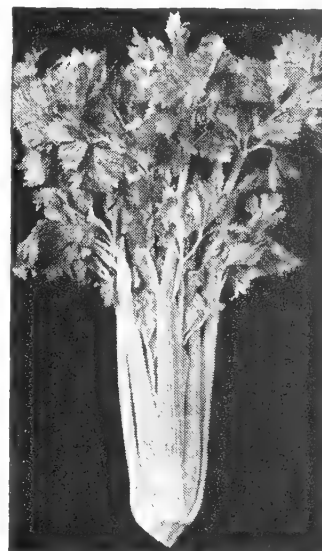
CULTURE. Celeriac seed may be treated the same as celery until outdoor planting. Plant in rows 14 inches apart, 3 or 4 inches apart in the row.

Large Smooth Turnip Rooted

120 days

This vegetable deserves a wider recognition by growers or home gardeners. Is fine for flavoring soups, stews, or roots may be cooked up like parsnips. Has a celery flavor. **Pkt., 10c; oz., 80c; $\frac{1}{4}$ lb., \$2.25.**

CELERY



Gould's Reliable Self Blanching Celery

CULTURE. For early crop, seed should be sown indoors in February or March. The surface of seed bed should be covered with sand to hold moisture without becoming crusted. When seedlings are big enough to handle they should be transplanted to develop the roots and harden the tops. Plant out in the open when danger of severe frost is past and the soil can be worked.

EAT CELERY FOR HEALTH

Celery is a health builder, and besides vitamin B, contains valuable mineral salts, which assist your organs to function, aids digestion, glands and nerves.

Gould's Reliable Self Blanching*

115 TO 125 DAYS. The seed is American grown of French stock which has been brought to its present high standard of perfection after many years of careful selection. The stalks are tender, crisp and very fine flavored. It is almost double the size of the common strain. **Pkt., 10c; oz., 90c; $\frac{1}{4}$ lb., \$3.00; 1 lb., \$10.00.**

Giant Pascal*

135 days

This is a late winter variety of the green type of celery. The plants grow 36 to 40 inches in height; color of stalks and leaves is green. One of the best quality celery types and has a delicious, sweet and fine nutty flavor. **Pkt., 10c; 1 oz., 90c; $\frac{1}{4}$ lb., \$3.00; 1 lb., \$10.00.**

Cornell No. 19*

100 days

A cross between Golden Self Blanching and Utah. An early easy blanching strain of outstanding quality, combining all the best qualities of the Green Pascal Celeries. Stalks are very large, smooth; flesh thick, tender and without strings. The heart is well developed. It is resistant to "yellows" and we recommend it especially for main crop, as it tends to produce seeders if planted too early. Stalks blanch quickly and hold up well in storage. **Pkt., 10c; oz., 90c; $\frac{1}{4}$ lb., \$3.00; 1 lb., \$10.00.**

Salt Lake or Utah*

125 to 130 days

Salt Lake grows to a good height and produces stalks that are crisp and tender with a delicious flavor. This celery will bleach much quicker than any other green variety. It is also very desirable for late storing. **Pkt., 10c; oz., 90c; $\frac{1}{4}$ lb., \$3.00; 1 lb., \$10.00.**

SWEET CORN

CULTURE. Have your soil well prepared but do not plant sweet corn until the ground is warmed up thoroughly. Then the early varieties may be planted in hills 30 inches apart both ways while the later varieties should be planted 3 to 3½ feet both ways. Plant 5 or 6 kernels to the hill from 1 to 2 inches deep.

HYBRID SWEET CORN



Golden Rocket

Golden Rocket

Hybrid★f 67 days

A 12 to 14 row yellow variety, about 5½ feet tall, that is outstanding for either market or home gardeners. The ear is about 7½ in. in length and slightly tapered. Here is a new sweet corn you must try. It will prove a pleasant surprise to you. Pkt., 15c; ½ lb., 40c; 1 lb., 70c; 2 lbs., \$1.35; 5 lbs., \$2.50; 10 lbs., \$4.75.

Kingscrot Hybrid★f

(8 Row Single Cross

M-13) 72 days

This is a true hybrid from inbreds developed out of Extra Early Golden Bantam. Very uniform in maturity. This yellow ear is long for an early corn, averaging about 6½ inches. Has a high sugar content and excellent quality. It has been one of the outstanding early 8-row hybrids tested with the market gardeners during past years. Pkt., 15c; ½ lb., 40c; 1 lb., 70c; 2 lbs., \$1.35; 5 lbs., \$2.50; 10 lbs., \$4.75.

Marcross Hybrid C 6 x 13★

76 days

This single cross is a good early, wilt-resistant, large eared yellow variety. Ears 10 to 14 rowed, 6½ to 7 inches long, kernels medium yellow. Pkt., 15c; ½ lb., 35c; 1 lb., 65c; 2 lbs., \$1.20; 5 lbs., \$2.35; 10 lbs., \$4.25.

Hybrid 8 Row Blend f

70 to 85 days

This is a blend of five different well known named hybrids, primarily for home gardens. There is a spread of ten days to two weeks in picking dates. The stalk height and ear type are similar all the way through. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.35; 10 lbs., \$4.25.

Golden Cross Bantam★f

85 days

Considerably larger in both plant and ears than Bantam. Ears carry from ten to fourteen rows and are medium yellow color. Ear length 7½ to 8 inches. It is resistant to Stewart's disease or bacterial wilt. Best known yellow hybrid and it is widely adapted to market garden, home and canning use. Pkt., 15c; ½ lb., 35c; 1 lb., 65c; 2 lbs., \$1.20; 5 lbs., \$2.75; 10 lbs., \$4.50.

OPEN POLLINATED SWEET CORN

Early Golden Market★ (Golden Hummer)

72 days

An early yellow sweet corn that is very popular with the market gardeners. It is larger than Sunshine and about one week earlier. It is also a good yielder. 6 to 7 inches long, mostly 12 rows of kernels. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Golden Sunshine★

70 to 76 days

In this corn of rich golden color we find a fine sweet variety maturing a week or ten days earlier than Golden Bantam. Large for an early variety. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Golden Bantam★f Extra Early

76 days

This is a recombination of 15 inbred strains of Golden Bantam. The quality, color and width of kernel is much superior to ordinary Bantam. "Extra Early" Golden Bantam is adapted especially to home gardens, where early eating corn is desired. It is also profitable to market gardeners. This recombination can be carried along by seed selection from the crop just as with any normal variety. May be planted at intervals of two weeks until July 1st. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Golden Giant★

90 days

Because of the extreme tenderness, combined with the rich, exquisite sugary flavor, the Golden Giant has become the standard of perfection for sugar corn. Ears 7 to 9 inches long, 12 to 16 rows of deep kernels. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Black Mexican

92 days

Many consider this sweet corn the sweetest of all for its delicious flavor and fine grain qualities. The ripe kernels are bluish-black. At eating stage the kernels are bluish-white. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c.

Early Evergreen

95 days

Produces large white ears of extra fine quality, which mature a few days ahead of Stowell's Late Evergreen. We recommend it very highly for both home and market gardens. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Golden Evergreen★

95 days

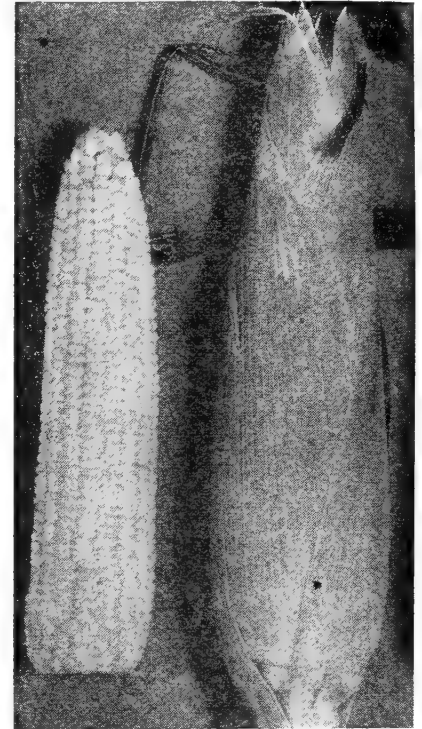
A cross between Golden Bantam and Stowell's Evergreen combining the buttery flavor of the former and large ear of the latter. The ears are 8 to 9 inches long and contain 12 to 14 rows of beautiful yellow kernels. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Country Gentleman

98 DAYS. A great favorite for the home garden. The white kernels being very deep and packed so tightly that the food value from one ear is almost as great as that on larger ears. The flavor is delicious. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.

Stowell's Evergreen

98 DAYS. The best known and most popular late variety. Its large ears with long deep white kernels of a rich sugary flavor cannot be surpassed. Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$2.75.



Stowell's Evergreen

POP CORN

CULTURE. Sow in rows 3 feet apart, 2 to 3 inches deep as soon as danger of frost is over at the rate of 4 to 6 pounds to the acre, or 1 ounce to 40-foot row. Thin plants to 10 to 12 inches in the row. Care in curing determines popping qualities.

Gould's South American

This variety has become very popular. The kernels are nearly round and deep orange in color. When popped the kernels are nearly twice the size of other corn and are of a creamy yellow color. Popped kernel has no hard center. The stalks grow 6 to 8 feet high and produce 2 to 3 large ears on each stalk. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.00; 10 lbs., \$3.50.

Minhybrid 250

A hybrid hullless white popcorn developed by the University of Minnesota, which is more vigorous and produces better and more uniform popping corn. Pkt., 15c; ½ lb., 45c; 1 lb., 75c; 5 lbs., \$3.50; 10 lbs., \$6.50.

Gould's White Dwarf Hullless

Very tender and almost hullless. Ears are short and chunky. Although the kernels are very small they pop to large size, being very tender and brittle. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.15; 5 lbs., \$2.25; 10 lbs., \$4.00.

Popcorn for Popping

We are Northwest headquarters for fine corn for popping, either white or yellow variety. Prices quoted on request.

CRESS

CULTURE. Sow seed thickly in shallow drills 12 inches apart in the spring, and for a succession every two weeks. One ounce of seed required for 200 feet of drill.

Fine Curled (Pepper Grass)

40 to 50 days

Quick growing; leaves finely cut like parsley; growth dwarf and compact; crisp and pungent. Cut the greens before they get too tall. Splendid for garnishing. Pkt., 10c; oz., 25c; ¼ lb., 75c.

Water Cress

55 days

Sow the seed in cool, moist soil in the early spring or if a shallow slow running stream or ditch is near, the seed may be sown within the same near the bank. When sown in a location of this kind it grows luxuriantly for years. Highly esteemed as a salad; also as a garnish. Pkt., 15c.

CUCUMBER

CULTURE. Plant in hills 6 feet apart each way. 10 to 20 seeds may be planted in each hill, covering a circle 15 inches in diameter. When plants are three or four inches high they may be thinned to 5 or 6 to a hill, allowing for cutworms and beetles destroying one or two. Cultivate frequently until the vines cover the ground. The seed may also be started in berry boxes by placing them in a hotbed. When the weather is suitable—settled and warm—remove the box as plants are placed in the garden. The fruit should be gathered as soon as large enough for use, or else the productiveness of the vines will be permanently injured. One ounce of seed is required for 60 hills; two to three pounds per acre.

Straight-8★

63 days

Outstanding as a shipping cucumber, also recommended for the home garden. 1½ inches in diameter, 8 inches long, and well rounded at both ends. Deep green in color and free from striping. Awarded All-America gold medal in 1935. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$2.75.**

A & C★

68 days

One of best known varieties for market and home gardens. Fruits nearly cylindrical, tapering slightly at ends. Uniform in size and dark green color. 8½ inches long, 2¼ inches in diameter. Holds color very well; one of the leading white spine varieties for slicing. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$2.75.**

Marketer★

60-65 days

A new cucumber. A good early prolific variety. Tapers to straight end. Color dark green and does not show light stripes. A little smaller than A & C. **Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50.**

Woodruff's Hybrid★

63 days

A fine market gardener variety, holding color and firmness well. Fruits dark green, white spined. 8 to 10 inches long, 2½ inch diameter, tapering to both ends. **Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50.**

Longfellow★

72 days

An excellent long, slender dark green variety, equally desirable for greenhouse forcing or outdoor culture. This is an ideal cucumber for the market gardener, growing 12 to 14 inches in length, of vigorous habit. White spined. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$2.75.**

Davis Perfect★

65 days

A selected strain of Long White Spine which retains its dark green color and good qualities long after being picked. It is crisp, solid, of fine flavor and has very few seeds. Will average about 10 inches or more in length, is quite slender, tapering slightly at both ends. The Davis Perfect makes a splendid cucumber to grow for pickling, as well as for table. **Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50.**

Improved Arlington White Spine★

60 days

One of the earliest and most popular cucumbers of the White Spine family. This improved strain is much superior to the old sort. The skin is dark green, the flesh firm but tender and of delicious flavor. Good for slicing or pickling. Is a heavy yielder and measures 6 to 9 inches in length. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Cubit★

60 days

A 1944 All-America Winner. A heavy bearer of white-spined, main crop variety, distinguished by unusually uniform dark green exterior color and long, blunt-ended, cylindrical shape of smooth, crisp texture, with small seed cavity. A fine Cucumber for home gardeners, market gardeners and shipping. **Pkt., 10c; oz., 40c; ¼ lb., \$1.25; 1 lb., \$3.50.**

Gould's Pickling

56 days

A big favorite for those who want a small pickle. Produces a heavy yield of deep green, square ended fruits, broad at stem end and tapering slightly to the tip, of very uniform size. About 5 inches at maturity. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Climbing

60 days

A vigorous grower. Very desirable for planting along fence or trellis in small gardens. A real climber that does best on a pole or trellis. Fruit about 9 inches long, tender and crisp. A medium dark green color. Quite resistant to disease, black spined. **Pkt., 10c; oz., 25c; ¼ lb., 85c.**

Early Fortune★

65 days

One of the leading early White Spine varieties with a rich dark green color. It grows about nine inches long, slightly tapering at both ends. Has very few seeds. The white flesh is firm and crisp. A good shipper. Fine for table, market or for pickles. A heavy producer, disease resistant. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Long Green★

70 days

Produces dark green fruit from 10 to 14 inches long. Flesh is firm and crisp. Fine for slicing, also desirable for ripe cucumber pickles, the best variety to use for yellow pickling. The bulk of the crop matures late and is in much demand for both the home garden and for market gardeners. Black spined, one of the most popular. **Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$2.75.**

Boston Pickling

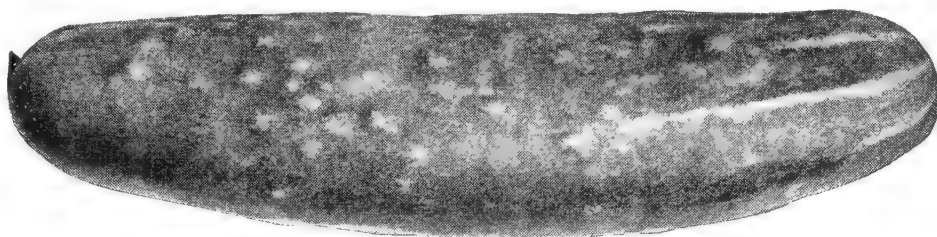
58 days

Very productive, and grown mostly for pickles. The fruit is black spined, bright green in color, and smooth. Flesh crisp and tender. Grows 6 to 7 inches long. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Chicago or Westerfield Pickling

59 days

About 7 inches in length, 2½ inches thick, blunt at both ends, and has large black spines. Is very prolific, and a favorite of many who grow pickles on a large scale. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**



A & C Cucumber

National Pickling★

54 days

An early maturing strain of medium size, deep green, very solid, uniform pickles. Stay just as firm after pickling as before. Very productive. An excellent pickling variety. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Snow's Pickling

55 days

A small, early, deep green variety; a favorite among pickle growers. Very productive, maturing uniformly, of excellent quality. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Seeds are postpaid in packets only. In larger amounts add postage at rates shown on page 3.

DILL

The young green stems are used for flavoring soups and sauces. The dried branches and seeds are much prized for flavoring pickles, and the seeds are used for flavoring sauerkraut. **Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.25.**

EGGPLANT

CULTURE. Sow in hotbed in March and April, and when two inches high, transplant to pots or boxes to develop root growth. About June 1st, plant in field or garden 2½ to 3 feet apart each way and cultivate same as cabbage or tomato. Protect young plants from sun as much as possible, also from potato bugs.

New York Spineless★

85 days

The leading variety for home gardens and market. The plants are stocky and low branching and produce extra large dark purple fruit of perfect shape. Is the handsomest type and most perfect strain of Eggplants, usually bearing 4 to 6 large fruits of the finest quality during a season. **Pkt., 10c; oz., 90c; ¼ lb., \$2.75.**

Black Beauty★

82 days

Slightly earlier than the New York Spineless but not so large. The skin is of a rich dark purple color, and very desirable for market as it holds its color for a long time. Shape nearly round. **Pkt., 10c; oz., 90c; ¼ lb., \$2.75.**

Badger State

75 days

This new variety developed at the Wisc. Agric. College is 7 to 10 days earlier than Black Beauty. Is slightly smaller than Black Beauty, becoming larger gradually towards the base. **Pkt., 15c; 1 oz., \$1.25; ¼ lb., \$3.50.**

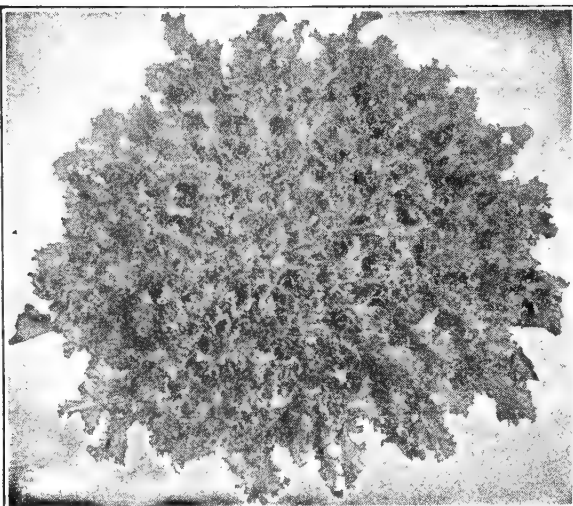
Market Gardeners and Florists

We do not issue a separate Market Gardeners' catalog and price list, but you will note that we list larger amounts than the small gardener buys, and these quantity prices are intended for the market gardener. Special flower seed price list for florists will be sent on request.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

ENDIVE

This plant furnishes attractive and appetizing salad for the fall and winter months, or by repeated sowing a supply may be had nearly all the year 'round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach. Cultivation same as for lettuce.



Green Curled Endive

Broad Leaved Batavian★ (Escarolle) 90 to 95 days

One of the best varieties for salads. Leaves are broad, more or less twisted and waved with bright deep green, with nearly white midrib. Inner leaves form a fair head which blanches to a creamy white. Crisp, tender, and of fine flavor. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

White Curled 100 days

A very beautiful variety with leaves finely curled or mossed, light green in color. Blanches easily. Has a delicious, crisp flavor. Used extensively for decorations as well as for salad. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

Green Curled★ 90 to 95 days

A hardy and vigorous grower, with bright deep green leaves finely cut. The leaves should be tied up in the shape of a head for 3 or 4 weeks before using. Is very popular with market and home gardeners. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

GARLIC

Garlic belongs to the Onion family. It has flat leaves and the bulb is composed of several parts similar to those of a multiplier onion set. Garlic is highly esteemed for flavoring soups, stews, etc. Write for price.

CULTURE. Prepare the ground as for Onions; separate the sets and plant them eight inches apart and four to six inches apart in the drill, covering two inches deep. When the leaves turn yellow, pull up bulbs. Dry in the shade.

KALE

CULTURE. Sow in May or June and cultivate the same as cabbage. Makes excellent greens and is improved by light frosts. More hardy than cabbage.

Dwarf Curled★ f 55 days

A very finely curled dwarf spreading variety. Foliage is long and bright green. Is even more hardy than cabbage. Produces excellent greens for winter and spring. **Pkt., 10c; oz., 30c; ¼ lb., 75c.**

Tall Curled★ 60 days

This variety grows to a height of two to three feet, bearing long plume-like leaves of a light green color. Is rather improved than injured by fairly heavy frosts. Crop failure. Cannot supply in 1947.

In Health Building—Greens Supply All These:

Bulk—Helps digestion and prevents constipation. Crisp, raw foods encourage chewing and stimulate flow of saliva.

Calcium—Builds bones, teeth, and blood. Everyone needs it, especially growing children and pregnant mothers.

Iron—Makes rich blood. A lack of this mineral causes anemia, mental dullness, and tiredness.

Vitamin A—Stimulates growth. It also promotes tooth and bone formation; its lack contributes to night blindness.

Vitamin B (thiamin)—Tones up the body. It promotes nerve development, sharpens the appetite, and helps the body make best use of food.

Vitamin C—Helps resist infection and builds good teeth and bones.

Vitamin G (riboflavin)—Promotes growth and keeps eyes and skin healthy. Also valuable in helping body utilize starches.

HERBS

Most of the varieties of herbs thrive best on sandy soil, while some are stronger and better flavored when grown on soil that is rather poor. In all cases the soil should be carefully prepared and well cultivated as the young plants are for the most part easily choked out by weeds. Sow as early as the ground can be made ready.

Anise. Grown for its aromatic seeds used in flavoring. **Pkt., 10c.**

Basil, Sweet. Leaves clove flavored and shoots used for flavoring soups, stews, omelets and as garnish for salads. **Pkt., 10c.**

Borage. A hardy annual with fuzzy foliage and blue, star-shaped flowers which are attractive to honey bees. Leaves give a cucumber flavor to salads and flowers an aromatic flavor to drinks. **Pkt., 10c.**

Caraway. Seed used for flavoring bread, cake, confectionery, etc.; leaves for soups as well as meat. **Pkt., 10c.**

Catnip or Catmint. A hardy perennial. The leaves and young shoots are used for seasoning. An excellent bee pasture. Plants 2 to 3 ft. tall. **Pkt., 10c.**

Coriander. Seed used for beverages. **Pkt., 10c.**

Dill. See bottom of page 9.

Fennel, Sweet. A hardy perennial plant with finely cut foliage. Young shoots are used in salads, soups and fish sauces. Seed used in confectionery and for medicinal purposes. **Pkt., 10c.**

Lavender. Medicinal, also used as a perfume. **Pkt., 10c.**

Marjoram, Sweet. Tender young shoots and leaves which are used green, or dried for flavoring soups, dressings, etc. **Pkt., 10c.**

Saffron. Used for medicine and also in dyeing. **Pkt., 10c.**

Sage. For seasoning; counteracts effects of fatty food. Cut the leaves and tender shoots just as the plant is coming into flower. Dry quickly in the shade. **Pkt., 10c.**

Summer Savory. Dried leaves, stems and flowers used for flavoring soups and dressings. **Pkt., 10c.**

Thyme. Used for a headache tea, also for flavoring omelets, soups, salads, stuffing, etc. **Pkt., 10c.**

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

KOHL RABI

CULTURE. Sow in drills 15 inches apart, ½ to ¾ inch deep. When a few inches high thin to 6 to 8 inches apart in the row and cultivate same as beet. Bulbs grow above ground. Roots should be prepared like turnips or cauliflower for cooking. Are much sweeter than turnips.



Early White Vienna Kohl Rabi

Early White★ 55 to 65 days
Very early, producing small white bulbs. Used especially for forcing. One of the best for table use. Eat when about 2 inches in diameter. **Pkt., 10c; oz., 45c; ¼ lb., \$1.25.**

Early Purple 60 days
Small plants with purple-stained, dark green leaves. Flattened globe-shaped bulbs, which should be eaten when about 2 in. in diameter. Skin purple. Flesh white, mild, crisp and tender. **Pkt., 10c; oz., 45c; ¼ lb., \$1.25.**

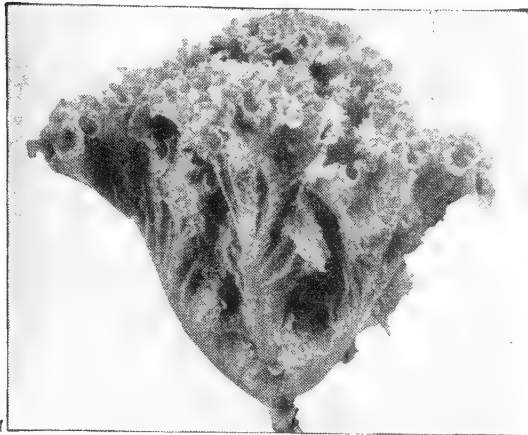
LEEK

CULTURE. Sow about May 1st in drills 12 inches apart from ½ to 1 inch deep. When 6 inches high transplant to rows 15 inches apart and 5 inches apart in row, setting the plants in the ground up to their center leaves and drawing this ground up as they grow, causing them to bleach.

American Flag★ 115 days
A strong growing variety, producing large thick stems which have a sweet flavor. Leek is excellent for stews, soups, or creamed. Leek is closely allied to the onion, but milder in flavor. **Pkt., 10c; oz., 75c; ¼ lb., \$2.00.**

LETTUCE

CULTURE. Lettuce is the most popular of all salad plants and at the same time is one of the easiest to grow due to its comparative freedom from disease and insects. Seed may be sown in the open from April 20th to August 1st, or planted in the house or in frames any time after March 10th.



Grand Rapids Lettuce

feet of row. 2 to 2½ pounds required per acre.

Row should be 1½ feet apart, plants in 4 inches apart in row after thinning. One ounce of seed will sow 150

LOOSE LEAF VARIETIES

Bronze Beauty

40 days

This new 1947 All-America is one of the very best for home garden. Leaves are small and long in shape, sharply cut, dark green in color, tinged with bronze. Is very tender and of fine butter-like flavor. Grows well in hot weather. Pkt., 15c; ½ oz., 50c; 1 oz., 80c.

Grand Rapids*

43 to 45 days

The most popular variety to grow for market. When exposed for sale it retains its handsome fresh appearance longer than any other variety. Leaf is curly and of light green color and crimped at the edge. Disease free. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

Black Seeded Simpson*

40 days

One of the best and most popular varieties of leaf lettuce. Recommended for spring and early summer planting. Color light yellowish green, its large leaves are thin, tender and sweet. One of the finest for home garden and a favorite market lettuce. Very heat resistant. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

Oak Leaf

40 days

This novel variety excels in ability to withstand hot weather without turning bitter. Its leaves are small, tender and dark green, testifying to their richness in vitamins. It has the superior butter-type flavor. Pkt. 10c; oz. 30c; ¼ lb. 90c.

Prizehead

45 days

The name is rather deceiving, Prizehead being a crisp and tender, loose leaf sort with a reddish brown tint on edges of outer leaves. Of quick growth and sweet flavor. One of the best for the home garden. Pkt., 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

Chicken Lettuce (For Poultry Feeding)

So called on account of the abundance of greens it furnishes for poultry feeding or for rabbits. Will come quickly again after cutting. Will send up stalks three to four feet long. Of little value for table use. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.00.

ROMAINE OR COS LETTUCE

Paris White Cos

60 days

A strong grower and very productive, with long, shell shaped, medium green leaves of most excellent quality. A self-folder, but when plant is over half grown it is best to tie it up with string so that the inner leaves may be blanched perfectly white. Head 8 to 9 in. high, long loaf shaped. Esteemed the finest of lettuce in flavor. Chefs prefer it for salads because of its tenderness, delicious flavor. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c.

Culture for Head Lettuce

If lettuce plants have been started indoors, transplant as soon as they begin to crowd. Place them six to twelve in. apart in the row in extra rich soil and if the sun has become very hot, it will be best to furnish partial shade. Keep the soil well cultivated around the plants. When the heads start to develop work up the soil around them so as to induce close, compact growth. As soon as the outside leaves are large enough they should be brought together and tied over the top with raffia. Tying makes them deliciously tender and crisp.

HEADING VARIETIES

Maturity Figures

After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.

Bibb

57 days

The tenderest, most brittle of all lettuce leaves are found in the loose, dark green heads of this variety which chefs of luxury hotels and high priced food shops all over the country have begun to feature. In the garden it grows fast in the spring and fall, maturing its loose heads, as big as a fist, from seed sown in the open ground, with reasonable thinning. In hot weather it runs quickly to seed, so start it early and sow a fall crop in midsummer. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; 1 lb. \$3.00.

Great Lakes*

82 days

All-America Winner in 1943. Iceberg type of lettuce. It stands heat and sun extremely well and is slow in throwing its seed head. It is also resistant to tip burn. Outstanding for home gardeners and used extensively in the East by truck gardeners operating on muck soils. White seed. Pkt. 10c; oz. 70c; ¼ lb. \$2.00.

May King*

63 days

A very early compact heading variety for forcing or early spring planting. The outer leaves are of a light green, tinged with reddish brown. The heart bleaches to a rich, golden yellow, having a fine, rich buttery flavor. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Big Boston* (White Seeded)

76 days

A heading variety forming a good sized solid head which is light golden yellow inside, of excellent quality. The outer leaves are bright green and edges are tinged with brown. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Iceberg

80 days

Heads are large and firm and well blanched. Color of leaves is light green with faint brown tracing on the border. A quick grower, heads always crisp, very sweet and tender. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c; 1 lb. \$2.60.

Hanson Head

80 days

Color clear light yellowish green. A fine variety for mid-summer planting as it stands extremes of weather better than most sorts. Much in demand by both the market and home gardener. The hard cabbage-like head has a sweet and rich flavor, even to the outer leaves. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c; 1 lb. \$2.60.

New York* No. 12

75 days

An early strain of the New York type which withstands heat better and is more adapted for summer growing. The color is medium green, the heart blanching beautifully, being crisp, tender and delicious. Pkt. 5c and 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$3.50.

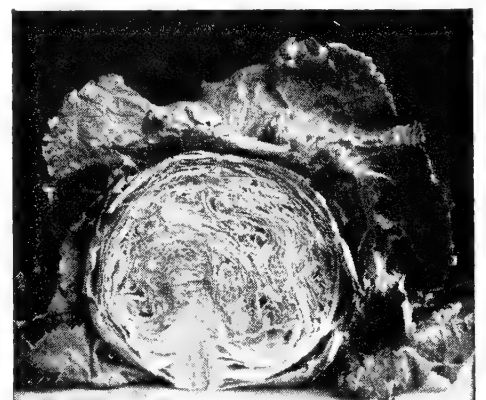
New York* No. 515

80 days

An improved type of New York No. 12. The heads are more conical in shape. The frame is medium to large and the leaves overlap nicely. In trials it was the most sure heading of the New York types. Resistant to tip-burn. Pkt. 5c and 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$3.50.

Cosberg 76 days

A white seeded home garden heading variety. Heads small and compact. Outer leaves light yellowish green, crumpled and frilled. Heads in summer and resists tip-burns. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c; 1 lb. \$2.60.



New York Head Lettuce

Imperial No. 44*

82 DAYS. Has very long well-folded leaves and produces hard well-formed heads under favorable conditions. A good header on peat and muck soils. Pkt. 5c and 10c; oz. 50c; ¼ lb. \$1.50; 1 lb. \$4.00.

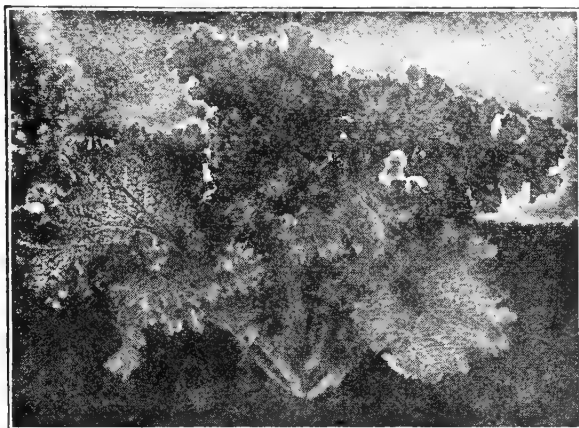
Salamander

72 days

It forms large solid heads of thick, smooth, light green leaves and tender white heart of fine quality. It withstands hot weather remarkably well, and remains in head a long time before going to seed. One of the best outdoor heading varieties. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

MUSTARD

A very quick growing foliage plant that is grown principally for greens. Mustard greens have a rich flavor and are fully as healthful and nutritious as spinach.



Giant Southern Curled★

Used largely for salads or greens. Grows very large with yellowish-green beautiful curled leaves. Very tender, of fine pungent flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.

Southern Giant Curled Mustard

Fordhook Fancy

Not as large as Southern Giant Curled. The leaves are more fringed and crumpled. A very attractive variety and excellent in quality. The growth habit is upright. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

Smooth Leaf

An excellent variety with very large, light green, fairly smooth leaves, with white mid-rib borne well above the ground. A vigorous grower. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.

Tendergreen

A mild-flavored mustard-spinach. Foliage may be used for greens when plant is quite young and until it is matured. Cook same as spinach or other greens. Grows fast with long, broad, fairly smooth leaves. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.

MUSKMELON

CULTURE. Muskmelons do best on moderately rich light, warm mellow loam. Do not plant until the ground has warmed thoroughly, as they will start quicker and withstand the attacks of insects so much better. Plant in hills 5 or 6 feet apart both ways. Mix in the hill before planting, one large cupful of commercial fertilizer. Plant 1 inch deep, 10 to 15 seeds to the hill. When plants are 3 inches high, thin to 4 or 5 in a hill, leaving the best plants.

The melons best suited for market are indicated by a star (★) after the name of the variety.

Gould's Osage★

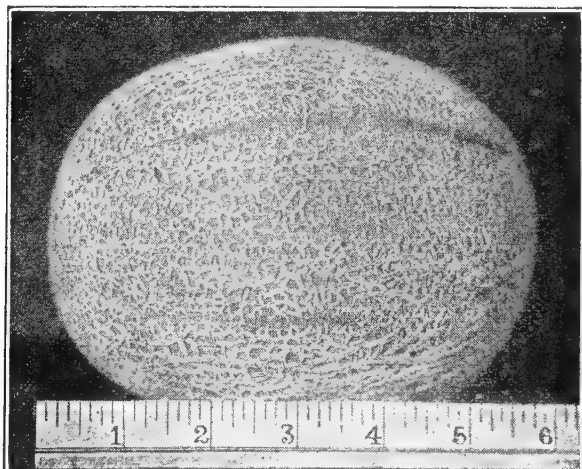
95 days

A selected strain of Miller's Cream or Osage. The fruit is nearly round and slightly ribbed. The skin is dark green and partly netted. The flesh is of a deep salmon color, very thick and sweet. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Golden Osage★

95 days

An improved strain of Osage melon combined with the Yellow Meated Japan. The flesh is of a fine golden yellow, very thick meated and the flavor is delicious. The skin is of a light yellowish tint and partly netted. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.



Hale's Best Muskmelon

Bender's Surprise★

87 days

A very fine large, round, salmon-fleshed melon of exceptional flavor. The skin is dark green becoming light yellow at maturity. Fairly well netted, attractive and a good shipper. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Sunrise or Delicious★

90 days

This is perhaps the largest of the early muskmelons. Is especially recommended for roadside markets and local fruit and vegetable stands. It is well netted and has a very delicious flavor. The skin is light green and the flesh a beautiful yellow. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

Improved Hoodoo, or Hearts of Gold★

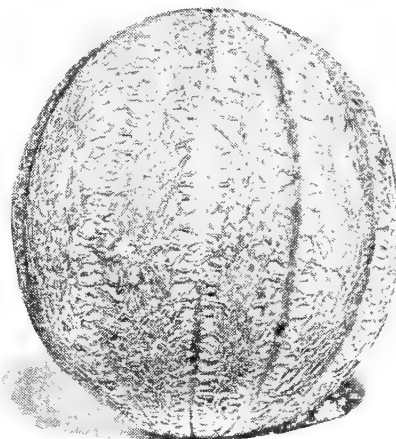
90 days

Medium size, round and slightly ribbed. The skin is thickly netted and the flesh a rich, deep orange color of fine quality, with a very small seed cavity. Very solid and firm. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Pride of Wisconsin★

90 days

A new most attractive melon both on the outside and when cut. The rind is very hard, of a pearly gray color, with a faint rib, heavily covered with a distinctive netting. Ripens to a yellowish shade. The salmon colored flesh is unusually thick with sweet and fine flavor. Has many of the desirable characteristics of the Sugar Rock. Adapted to home gardens and short distance shipping. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.



Pride of Wisconsin Muskmelon

Schoon's Hard Shell★

85 to 90 days

An excellent new market melon, which weighs five to seven pounds, is thick, oval shape with a heavy blossom scar which resists cracking. Ribbing is prominent with coarse netting. Gray-green color becoming yellow at maturity. Very hard and tough. The thick flesh is deep salmon-orange, solid, well flavored and of excellent quality. Fruits average 6 inches in diameter, 7½ inches in length. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

Golden Gopher★

85 days

The Golden Gopher muskmelon is a new introduction by the Minnesota Agricultural Experiment Station, which combines Fusarium wilt-resistance, earliness, and high eating quality. It is slightly oval shape, skin is netted, grayish green when immature, becoming a definite yellow when mature. Flesh is orange. Not adapted to distant shipping. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

Iroquois★

A new fusarium resistant muskmelon. It is of the Bender's Surprise type, being a large melon of nice appearance with a cream tan skin. Fairly well netted, with good thick orange flesh of excellent quality. Has a small seed cavity. Pkt. 10c; oz. 30c; ¼ lb. 90c; 1 lb. \$3.00.

Milwaukee Market★

87 days

For home garden, roadside market or early shipping. Fruit of medium size, nearly round, lightly ribbed and fairly netted; skin light green, flesh thick, salmon colored and very sweet. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Hale's Best★

80 to 90 days

A remarkably early shipping melon from the Imperial Valley of California. The melon is oval in shape, about 6½ inches long by 5½ inches in diameter with very heavy netting and distinct ribbing. The flesh is exceptionally thick and a deep salmon in color. It is very sweet and a good keeper. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Sugar or Honey Rock★

85 days

An excellent variety of melon of high quality and very fine flavor. The flesh is a rich salmon, the skin a grayish green color becoming pale yellow at maturity with heavy, coarse netting. The shape is almost round and very solid. Very desirable for home garden and local market. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

Golden Champlain★ (Regular)

80 to 90 days

It is heavily netted, has a thin but tough rind, very thick flesh and small seed cavity. The flesh is salmon-orange, very juicy and sweet. It is fine grained, free from stringiness and uniformly delicious clear to the rind. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

WATERMELON

CULTURE. The soil must be rich, light, sandy loam to obtain best results. Plant in hills 8 to 10 feet apart each way, putting 10 to 15 seeds in each hill from ½ to 1 inch deep. When 3 inches high, thin to about 4 plants in each hill. Cultivate often.

Northern Sweet★

75 days

This is a variety of watermelon introduced from Russia by the Minnesota Agric. Experiment Sta. It is very early and of high quality. The melon is small, weighing from 10 to 12 pounds. The color is medium green with lighter stripes. Flesh is dark red, crisp and exceptionally sweet. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.**

Fordhook Early★

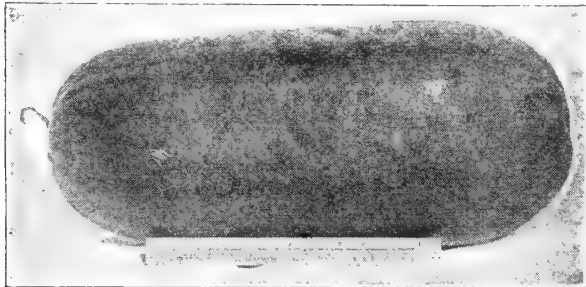
85 days

An extra early watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is bright red and very sweet. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.**

Improved Kleckley's Sweets★ (No. 6—Wilt R.)

85 days

Oblong, medium early and of large size. Skin is dark bluish-green and flesh is a bright scarlet. One of the best varieties for home garden and local market. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.**



Imp. Kleckley's Sweets, Watermelon.

Improved Klondike★

85 days

The flesh is a distinctive shade of deep red. The rind is dark green; the shape is oblong with an average weight of 25 pounds. While more a home garden and local market variety, it is adapted for shipping moderate distances. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.35.**

Dixie Queen

85 days

Skin is light green striped dark green. The flesh is bright red, very firm and fine flavored. Is almost round and weighs about 30 pounds. **Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.75.**

Kansas King★

85 days

This variety is also known as Early Kansas, Red Seeded Wichita, Hutchinson and Red Russian. The size is quite large, averaging about 25 to 30 pounds. The flesh is red, fine grained and of excellent quality, very sweet. The outside appearance is dark green with alternating stripe of lighter green. The rind is medium thick which makes it suitable for trucking or shipping short distances. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.**

The Will Rogers★

85 days

A large, round, oval melon, growing to a large size. The skin is dark green and the seeds white tipped with black. The flesh is bright red of excellent quality. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.**



Tom Watson Watermelon.

Tom Watson★

90 days

A large oblong melon, the skin of which is dark green, with fine veining of darker green. It weighs 35 to 40 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. Desirable for both home and market use. A good shipping melon. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.60.**

Gypsy or Georgia Rattlesnake

90 days

Is finding favor with Northern growers, as it is a splendid keeper and shipper. Is oblong in shape, yellowish-green with stripes of very dark green. Flesh is bright scarlet, crisp and very sweet. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.**

Stone Mountain★

90 days

The size is often very large, 35 to 40 lbs., and the flavor and texture of the best. Color is a dark green with finer green veining. The shape is nearly round with blocky ends, and the rind is quite thick. The flesh is bright crimson, exceptionally sweet and crisp, the seeds white, tipped and spotted with black. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.**

Black Diamond★

90 to 95 days

A large dark green round melon of good quality. Weighs 40 to 50 pounds. Recommended for shipping and market or home gardeners. Flesh solid, pink, seed dark brown to black. A vigorous grower. **Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.75.**

Winter Melon★ (Often called Honey Dew)

100 days

Is without a doubt the sweetest, firmest, most crisp of any watermelon grown. The rind is but ½ to ¾ inch thick. Shape round, not very large, skin almost cream color. Melons harvested in late fall and put in cool cellar may keep up to Christmas time. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.35.**

Citron for Preserves (Red Seed)

95 days

Fruit is round and smooth and very prolific. It is not edible raw, but makes very fine transparent preserves. **Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.60.**

MUSHROOM SPAWN

Propagated under the most advanced scientific pure culture methods. Ready to plant. Brick enough to plant 8 to 10 square feet. With full instructions. Brick 45c; postpaid 55c within 2nd Zone.

OKRA

Okra is raised for the pods which are used in flavoring soups, stews, etc. The pods are at their best when 1 to 3 inches long.

CULTURE. Sow the seed thickly in rich ground as soon as the ground becomes warm, in drills 3 feet apart and 1 inch deep. Thin out to 10 inches apart and cultivate freely.

Mammoth Long Podded

56 days

Very productive and bear dark green pods from 7 to 8 inches long. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.**

Dwarf Green

50 days

Grows low but stocky and is very prolific. The deep green pods are of fine quality, 5 to 7 inches long. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.**

Clemson Spineless

55 days

This is similar to Dwarf Green, but bush is taller, and pod is longer and darker and spineless, of good quality and very uniform. Plants 4 to 4½ feet tall. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.**

White Velvet

60 days

Has long, smooth, white pods which are very tender and of exceptional flavor until almost full grown. Pods 6 to 7 inches long. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.**

PARSLEY

CULTURE. Sow in early spring in drills 14 inches apart, ½ to 1 inch deep. Parsley seed is slow to germinate and requires from 20 to 30 days to show above the ground, therefore it is advisable to sow a few radish or lettuce seeds with the parsley seed as a guide for early cultivation.

Dark Moss Curled★

70 days

The leaves are of an extra dark green color. It is a heavy producer, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. Very fine for garnishing and flavoring. A home and market garden variety. **Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.**

Double Curled

70 days

Fine dwarf crimped leaves. Very similar to the Dark Moss Curled excepting that leaves are finer curled. A home garden favorite and very fine sort. **Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.**

Hamburg or Turnip Rooted Parsley

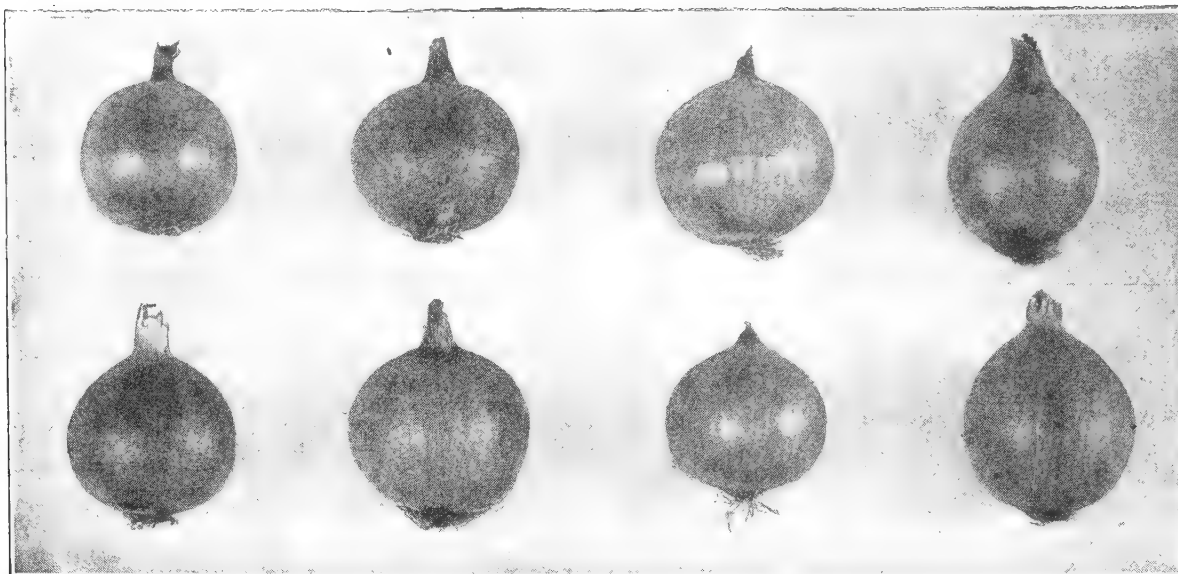
90 days

The edible roots of this variety resemble a small, thick parsnip in shape and color. They may be stored for the winter and used for flavoring soups, stews, etc. The flesh is white, a little dry, with the flavor of celeriac. Plain leaves can be used like ordinary parsley. **Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.**

Plain Leaved

72 days

Widely known as Italian Parsley, are not curled but have an excellent flavor. Not so attractive as curled leaf varieties for garnishing. **Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.**



Minn. Yellow Globe Yellow Globe Danvers Early Yellow Globe Southport Yellow Globe

Onion Plants

All plants are grown in open field, thereby assuring strong, hardy plants. They are tied in bunches of about 100 plants and packed 60 bunches to the crate. Planting about 3 inches apart in 16-inch rows will require 100,000 plants to the acre. Please write for prices about April 1. We expect to have White Wax, Yellow Bermuda, Sweet Spanish and Prizetaker plants ready about April 10th.

Onion Sets

On account of the uncertainty of the onion set market we are unable to quote prices at the time this book is being printed in January. See yellow list for prices. Prices will be available in March and April.

ONIONS

ONIONS FOR HEALTH

Onions give you energy and are rich in vitamins A and B, which aids digestion and assists your organs, glands and nerves to health. Onions increase bile secretions, aids children to grow and protects them from stomach ills.

Gould's Minnesota Globe Onions

Everywhere Globe Onions bring the best prices and since our Minnesota Red, Yellow and White selected strains are the most highly developed of all Globes, we confidently recommend them to growers who want onions that will top the market.

CULTURE. Sow just as early as possible, that is, when the ground can be worked up nicely. Have your seedbed in perfect shape, for onions are slow in coming up and require close cultivation. It is sometimes advisable to mix a few radish seeds with your onion seed so as to allow for earlier cultivation. One ounce of seed will sow 200 feet in drill $\frac{1}{2}$ inch to 1 inch deep, 4 to 5 pounds of seed to an acre drilled 13 to 14 inches apart for hand cultivation or 20 to 22 inches apart for cultivating with tractor. Cultivate often. Do not allow soil to bake.

All onions and other vegetable varieties best suited for market are indicated by a star (★) after the name of the variety.

YELLOW VARIETIES

Southport Yellow Globe★ (Brigham Strain) 110 days (Also Called Michigan)

A selection from Southport Yellow Globe for thick skin and keeping qualities. This variety has done especially well on peat and high lands. The bulbs are deep globe shape, color is dark yellow. The skin is thick and there appears to be an extra layer. A very excellent storage variety. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.50.

Southport Yellow Globe★ 115 days

A very popular strain of Yellow Globe onions. Matures early and is a good keeper. Skin is of rich brownish yellow, the flesh white, crisp and fine grained. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.50.

Yellow Globe Danvers★ 110 days

The bulbs are large and globular with very thin necks. The flesh is white and mild and the skin is orange-yellow. Is an enormous yielder, a fine keeper, and excellent for shipping, as well as for home gardens. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.00.

Gould's Minnesota Yellow Globe★ 112 days

This variety of Yellow Globe onion, like our Minnesota Red Globe, is a most select strain of Yellow Globe onion. It is perfect in shape and in color, also having all the best keeping qualities obtainable. A remarkable strain. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.50.

Yellow Sweet Spanish, Utah Strain

110 days

It is the most popular onion in Southern California and grows to large size. It does not produce the "stiff-necks" usual in the Spanish type. Pkt., 10c and 25c; oz., 75c; $\frac{1}{4}$ lb., \$2.00; 1 lb. \$6.75.

RED VARIETIES

Gould's Minnesota Red Globe★

110 days

This fine strain of Red Globe onions is the result of many years' selection. For trueness of type, perfection of color and long keeping qualities, it is unsurpassed. The color of Minnesota Red Globe is a deep blood-red, extra dark, while the surface is smooth and glossy. The flesh is white, tinged with light purple, fine grained and full flavor. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.00.

Southport Red Globe

110 days

A standard Red Globe onion of very good quality, and attractive in color. This onion is very uniform both in size and shape. Grows to a diameter of from two and a half to three and a half inches. A good keeper and exceptionally heavy yielder. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.00.

WHITE VARIETIES

Gould's Minnesota White Globe★

110 days

Without a doubt the best White Globe onion grown. It is pure white, mild, and a good keeper. Being much milder than the red or yellow varieties, it is much preferred for family use. Our Minnesota White Globe Onion is one of the very finest varieties in existence. Pkt., 10c and 25c; oz., 90c; $\frac{1}{4}$ lb., \$2.25; 1 lb., \$7.25.

Southport White Globe

110 days

Is a standard of the White Globe varieties. Flesh is crisp, mild, fine grained and pure white, delicious flavor. Bulbs should be stored in a cool dark place as soon as matured. Pkt., 10c and 25c; oz., 90c; $\frac{1}{4}$ lb., \$2.25; 1 lb., \$7.25.

Gould's Pickling★

105 days

For early bunching or pickling and also for sets. It is pure white, round, and very firm and mild in flavor. Pkt., 10c and 25c; oz., 90c; $\frac{1}{4}$ lb., \$2.25; 1 lb., \$7.25.

He-Shi-Ko White Bunching Onions★

This is the best of bunching Onions; perfectly hardy in Minnesota. A vigorous grower, making no bulb, but producing fine white necks or stalks which may be trenched without fear of discoloration or rot. You can plant seed as late as August for spring Onions. Pkt., 10c and 25c; oz., 65c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$5.00.

White Bunching★

An extra early round, white variety. It is exceptionally fine for early bunching, table, and for boiling. Matures large, snowy white onions. Pkt., 10c and 25c; oz., 90c; $\frac{1}{4}$ lb., \$2.25; 1 lb., \$7.25.

White Portugal or Silver Skin★

100 days

Of medium size, flat shaped, ripening early and uniformly. Has a fine mild flavor. A splendid onion for pickling and early bunching, also for white bottom sets. A good keeper. Pkt., 10c and 25c; oz., 75c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.75.

PEAS

CULTURE FOR GARDEN PEAS.

Sow seed 2 inches deep in rich soil very early in the spring and for a succession put in varieties that mature at different periods or if dwarfs only are desired, sow a few rows every 10 days throughout the season. For hand cultivation sow in rows 15 inches apart, but if grown on a large scale it is best to sow in rows from 2 to 3 feet apart and cultivate them with a horse or tractor. One pound of seed will plant 100 ft. of row; 75 to 100 lbs. of seed required to an acre.

EXTRA EARLY DWARF WRINKLED VARIETIES

Alaska (Smooth Seeded)

56 days

An outstanding strain, 100% wilt resistant, developed at the Sturgeon Bay Station in Wisconsin. Vine 29 inches high, stem thin, very uniform in maturing. Pods 2½ inches, light green, blunt, color medium green. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.40.**

American Wonder

61 days

This variety heads the list of peas in flavor and quality. The vines bear a great abundance of good-sized pods containing 5 to 8 large, exceedingly sweet, tender and well-flavored peas. Require no brush or other support. Grow to a height of about 12 inches. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.40; 10 lbs., \$2.50.**

Little Gem

65 days

Height 24 to 30 inches. It is a few days later than the American Wonder, but slightly larger and will bear for a longer period than other varieties. The peas are green, wrinkled, of sweet, delicious flavor and excellent quality. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.40; 10 lbs., \$2.50.**



Little Marvel Peas

Little Marvel

f 62 DAYS. An extra fine dwarf pea of the early wrinkled variety, with vines growing 15 to 20 inches high. Pods are about 3 inches long of a dark green color. Peas are very sweet and tender. Especially suited for home gardens and early market gardening. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.40; 10 lbs., \$2.50.**

Nott's Excelsior

62 days

A standard extra early dwarf wrinkled pea. The foliage is stout and heavy, about 12 inches high with an abundance of pods containing 6 or 7 light green wrinkled peas each. The peas are unsurpassed in sweetness and quality and are very desirable for the home gardener. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.40; 10 lbs., \$2.50.**

LARGE EARLY WRINKLED VARIETIES

Laxton's Progress*

60 days

One of the best large podded early dwarf varieties. For home gardens and shipping. Vines will average about 18 inches, pods 4 inches. Pods with 8 to 10 delicious peas are dark green. A very heavy bearer. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Laxtonian*

60 days

It is not only early but is of splendid quality and unusually productive. Vines 15 to 18 inches tall. Pods with 6 to 10 large, sweet, deep green peas, are plump, tapered at tip and borne singly. We recommend this to you for the home garden or market. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

The peas best suited for freezing are indicated by an italic *f* after the name of the variety.

Thomas Laxton*

58 days

Large podded, extra early pea. The pods contain on the average seven or eight large, sweet, wrinkled peas of the very richest flavor. The vines attain a height of from 2½ to 3 feet. In flavor this pea is unsurpassed. A very popular variety for the home and market gardener. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

World's Record*

58 days

An improved type of Gradus. 24 to 30 inches high, pods 4 inches long, medium green with 7 to 9 peas in pod. Very prolific. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Hundredfold*

60 days

This pea resembles the Laxtonian but is a little larger and more prolific. Vines grow to a height of 16 to 18 inches, pods dark green, and containing 8 large dark green peas of excellent quality. A very fine home garden pea and for market garden and shipping. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

MAIN CROP VARIETIES

Telephone*

74 days

Another leading pea for home and market gardeners. It comes into bearing fairly early, yields abundant crops of large, fine appearing pods and peas that are sweet and luscious. The vines grow about 4½ to 5 feet in height. The immense pods are straight, and of fine appearance, and contain eight to nine large, wrinkled peas, closely packed, tender, sweet and of fine flavor. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Giant Stride*

75 days

A very popular, large podded, shipping and market garden variety, also a good home garden pea. The pods holding 8 to 10 peas are 5½ to 6½ inches in length, dark green in color, pointed or curved end, and very attractive. The quality is excellent. The vine height is about 26 inches. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Peas are postpaid in packets only. In larger amounts add postage at rates shown on page 3.

Alderman*

74 days

This is a very large podded pea of the "Telephone" group, very robust and vigorous. The pods are well filled with large peas of most excellent flavor. The vines are from 4½ to 5½ feet in height. For home and market gardeners and shipping. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Teddy Roosevelt*

74 days

One of the best of the large dark podded Telephone types and one of the most productive and surest yielders. The vines grow to a height of 4 feet, producing in large numbers, large, well-filled pods of a dark green color, each pod containing from 8 to 9 large wrinkled peas of splendid quality. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Everbearing

76 days

Reaches a height of 2½ to 3 feet. As name indicates this variety continues long in bearing and is very prolific. The peas are very large green wrinkled and of excellent quality. Are tender and of superior flavor. One of the best for late summer and autumn use. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

Dwarf Gray Sugar (Edible Pods)

65 days

Vines 24 to 30 in. high with an abundance of medium sized sweet and tender pods, seed gray mottled in appearance. To be prepared for the table in the same manner as snap beans. **Pkt., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 75c.**

Mammoth Melting Sugar

74 days

This variety is cooked up the same as a snap-bean, both pod and pea being eaten. The pods are large, extremely tender and fine flavored when young. Crop failure, no seed available in 1947.

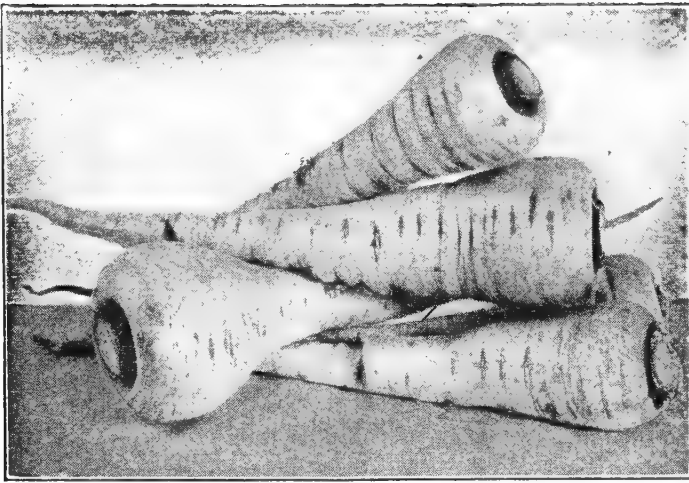
Carter's Daisy or Early Dwarf Telephone*

70 days

This pea is always in great demand owing to its large pods and excellent quality. It is very desirable for early market, always obtaining top prices. Vines are very vigorous, reaching about 18 inches, with well-filled pods. Vines require no support. **Pkt., 15c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50; 10 lbs., \$2.75.**



Inoculate peas with Nitragin. Greatly improves the vigor of the plants and increases yield immensely. Garden size 10c.



Hollow Crown Parsnips

PARSNIPS

CULTURE. Work the soil very deep and pulverize the seedbed thoroughly. Sow the seed in early spring. $\frac{1}{2}$ to 1 inch deep, in rows 18 inches apart. As soon as the young plants appear, cultivate and hand weed them, and when 3 inches high thin to 4 inches apart in the row. One ounce of seed for 200 feet of row; 3 lbs. seed required for an acre.

Hollow Crown★f 95 days

Better known and more generally grown than any other sort. The roots are smooth, large, tender and sweet and of the best quality. This variety is easily distinguished by the leaves arising from a cavity on the top or crown of the root. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.00.

All American or Improved Hollow Crown 93 days

Not as long as the regular Hollow Crown but is more smooth and uniform in size. Free from fibre with only a small core. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.00.

The vegetables best suited for market are indicated by a star (★) after the name of the variety. An f indicates the one best adapted for freezing.

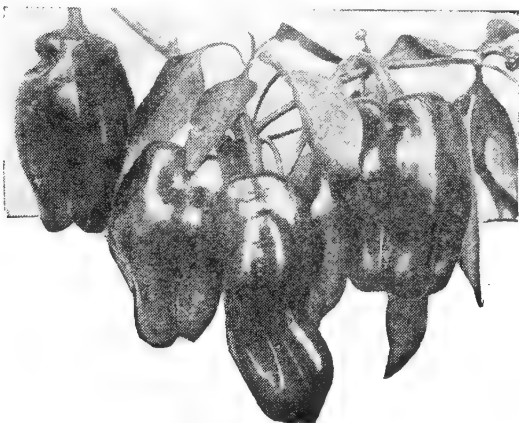
PEANUTS

Peanuts do best on a light, sandy soil. The ground should be ploughed deeply and thoroughly harrowed. Seed peanuts should be carefully hulled to prevent breaking the skin on the kernels. Plant in rows $2\frac{1}{2}$ to 3 feet apart and 12 inches in the row. Cover about 2 inches. When matured, pull up and dry in the sun a few days. Vines are a valuable feed for horses, cattle and sheep. 1 lb. 50c, postage extra.

PEPPERS

CULTURE. Seed should be planted in hotbed or greenhouse about March 10th to 20th. When plants are 3 inches high they should be transplanted to 2 or 3 inches apart until weather and soil conditions permit for outdoor planting. Then plant in rows $2\frac{1}{2}$ feet apart and 18 inches apart in row. Cultivate same as tomatoes.

PEPPER PLANTS. During the months of May and June we receive daily both seedling and potted pepper plants. Offer both the sweet and hot varieties.



Neapolitan Peppers

Neapolitan 62 days

A very early and productive large variety. The fruit is oblong and has a light green color gradually changing to golden and finally to a bright red. Very mild and sweet. Pkt., 10c; oz., 85c; $\frac{1}{4}$ lb., \$2.50.

Seeds are postpaid in packets only. In larger amounts add postage at the rates given on page 3.

Sunnybrook, Pimento Type★ 73 days

This is a bright red tomato-shaped pepper with thick, firm flesh. It is very sweet and exceptionally mild. It comes into bearing early and is very productive. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.25.

Waltham Beauty★ 68 days

Developed from California Wonder and is at least a week earlier. It has slightly smaller but blockier and more symmetrical fruits and lacks the deep depression and curling at the nose which characterize most peppers. Its exceptional uniformity, earliness, and high yield have already made it a favorite among market growers. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.00.

King of the North★ 65 days

An improved market gardeners' strain. The large peppers are dark green, turning to a rich red when ripe; mild and sweet. This pepper matures very early, is a heavy producer and fine for the home garden. Pkt., 10c; oz., 85c; $\frac{1}{4}$ lb., \$2.50.

Perfection★ 73 days

A fine variety for home and market gardens. Fruits heart shaped, smooth, 3 in. long, deep green becoming deep red. Flesh thick, sweet and of excellent flavor. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.00.

Hungarian Yellow (Hot) 65 days

A very hot pepper growing 5 to 7 inches in length tapering to a blunt point. The color is of canary yellow with waxy appearance. A heavy yielder. A favorite with many because of its pungency. Pkt., 10c; oz., 85c; $\frac{1}{4}$ lb., \$2.50.

Hungarian Yellow (Sweet) 65 days

Same type as the Hot Hungarian excepting that it is sweet. Pkt., 10c; oz., 85c; $\frac{1}{4}$ lb., \$2.50.

Crimson Giant★ 70 days

One of the best of the very large fruited sweet varieties. The color is a deep green turning to a rich crimson when mature. A home garden and market variety. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.25.

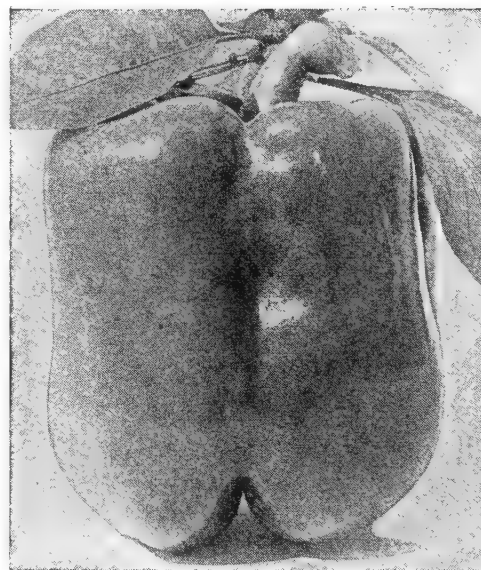
Small Red Cayenne★ 70 days

Is only $\frac{1}{2}$ inch in diameter and 4 to $4\frac{1}{2}$ inches long. Is very hot, and used mostly in sauces. Pkt., 10c; oz., 75c.

Long Red Cayenne★ 70 days

Is about $\frac{3}{4}$ to 1 inch in diameter and 5 to 7 inches long. Although this also is pungent, it is not as sharp as the Small Cayenne. For pickling, either green or ripe. Pkt., 10c; oz., 75c.

Peppers are one of best sources of Vitamins A and C and also contribute Vitamin B.



California Wonder★

75 DAYS. A sweet pepper with very thick flesh. Fruit very large, smooth and heavy. A good yielder. It is blocky in shape, square in cross section, 4 inches wide and $4\frac{1}{2}$ inches long. Some will weigh as much as a pound each. Is deep green when small, changing to crimson when ripe. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.25.

Large Bell or Bull Nose★

62 DAYS. This is one of the early, bell-shaped peppers.

California Wonder Pepper

pers. It is more pungent than the larger and later varieties. Large Bell is very desirable for pickling. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.25.

World Beater★ 75 days

One of the finest large peppers yet introduced. It is a cross between the Chinese Giant and Ruby King. Exceptionally mild, and can be eaten raw without fear of burning. Color of fruit is green at first, turning to a beautiful shade of scarlet. Flesh thick, which enables it to hold up a long time and makes it an excellent shipper. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.25.

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Recommended by

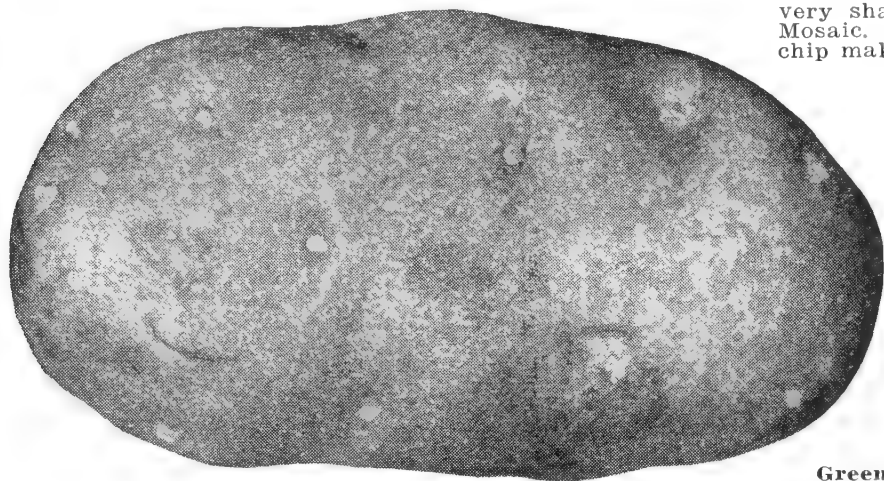
R. L. GOULD & COMPANY

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SEED POTATOES

**FINEST QUALITY FROM AMERICA'S
BEST SEED PRODUCING AREAS**

We will have this spring, State of Maine Certified Seed Potatoes famous for high quality seed stock in the following varieties: Sebago, Katahdin, Warba, Chippewa, Cobbler and Green Mountain. We also will have in Red River Valley and North Dakota seed stock, Bliss Triumphs and Early Ohio. Order early to avoid disappointment, in our being sold out. **SEE SPECIAL YELLOW LIST FOR PRICES.**



EARLY OHIO. A fine potato for early market, yet is a good winter keeper of excellent quality. Yields well on almost all soils. An old time favorite. Has smooth, slightly pinkish skin and shallow eyes. Shape oblong with blunt ends.

SEBAGO. This is a new popular variety, blight resistant, a cross of Chippewa and Katahdin. Sebago is a heavy yielder of finest cooking quality. Cooks white. Matures medium late. Fairly resistant to heat and drought. Adapted to almost any soil and weather conditions.

KATAHDIN. A fine main crop variety—an exceptionally good keeper. Of excellent cooking quality. A preferred variety for potato chips. Tubers are oval shaped, smooth and clean, skin and flesh white with very shallow eye. Does especially well on peat soils and muck. Plants are vigorous and disease resistant.

CHIPPEWA. An excellent variety that matures just ahead of most late potatoes. Tubers are smooth with very shallow eye; excellent cookers. Resistant to mild Mosaic. Fairly tolerant to heat and drought. Popular for chip making. Cooks white but not very mealy.

IRISH COBBLER. A medium early fine quality variety (about 90 days). Glossy white skin, tuber blocky, often with deep eyes. Not adapted to heavy soils. Does best on muck and lighter soils. Likes cool, moist situations.

TRIUMPH. Very early (80 days) dark pink skin, tubers blocky with shallow eyes. Fine for early market and home gardens. Excellent cooking quality. Adapted to light soils.

GREEN MOUNTAIN. (90 days). This large oval shaped medium late potato is one of the best for main crop. It is of exceptionally fine table quality and a good yielder. Not well adapted to heavy soils, nor is it tolerant to heat and drought.

Green Mountain

Please Refer to Yellow Field List for Seed Potato Prices.

WARBA. An extra early potato, maturing a week to ten days earlier than Early Ohio. Tubers are white, short, round, blocky with pink eyes and uniform in size. A big yielder. Does best on muck soil.

POTATO SPRAYS AND TREATING MATERIALS OTHERS LISTED ON PAGES 49, 50, 51

Red River Potato Mix

A scientific development combining a new patented copper fungicide with quick-killing arsenic. Kills potato bugs quicker, drives off flea beetle and leaf hopper, prevents blight from gaining a foothold, stimulates foliage, making more and better potatoes. Complete control as a dust or spray. Price: 1 lb., 40c; 4 lbs., \$1.25.

With DDT, 1 lb., 60c; 4 lbs., \$1.90.



Paris Green

For combating the potato bug and other chewing insects. Price: ¼ lb., 25c; 1 lb., 65c; 5 lbs., \$3.00; 25 lbs., \$12.00.

Corrosive Sublimate

Very effective against seed-borne diseases of potatoes, cabbage, cucumbers, etc., also for the control of root maggot in cabbage, cauliflower, radish and other allied crops. 1 oz., 65c; ¼ lb., \$1.75; 1 lb., \$4.50; 5 lbs., \$16.00.

Semesan Bel—for seed potatoes. A quick, easy dip treatment that eliminates scab, rhizoctonia and black leg diseases, increases yield and improves quality. Inexpensive. One pound treats 60 to 80 bushels of seed. Prices: 2 ozs., 35c; 1 lb., \$1.85; 4 lbs., \$6.30.

Tubertone for Treating Seed Potatoes

A Hormone powder especially for potatoes. Increases yield, quality and size of tubers. Use ½ lb. Tubertone to each bushel of cut seed stock. For plantings of less than an acre, use Rootone. **Tubertone.** 1 lb., 75c; 10 lbs., \$5.00.

Formaldehyde

Recommended for protection against seed-borne diseases. Will prevent potato scab, oats smut and stinking smut of wheat, also onion smut. 1 lb., 40c; 1 qt., 75c; ½ gal., \$1.35; 1 gal., \$2.50. Ask for price on larger quantities.

Barsprout

Controls sprouting and shrinkage of storage potatoes, carrots, beets, turnips and rutabagas. One pound treats 11 bushels. Price: 1 lb., \$1.20; 5 lbs., \$5.50; 20 lbs., \$16.00.

DOG AND RABBIT REPELLENTS



Acme Dawg-Gone

Not necessary to place tube in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance from six months to a year winter or summer. Tube—25c, 4 for 95c; 1 doz., \$2.75.

Dogzoff

Protects your evergreens, trees, plants, birds, lawns from dogs, cats, moles, mice, rabbits, etc. There is nothing offensive to humans about Dogzoff. Price, 60c.



Scram, Dog Repellent

In powder form in an easy-to-use shaker tin. Just shake powder on lawns or around shrubs or building where dogs are a nuisance. 8-oz. can, 50c.

DO DOGS RUIN YOUR GARDEN?



Liquid Chaperone keeps dogs away from gardens, evergreens, hedges, garbage pails. One spraying effective for 2 to 3 weeks. 4 ozs., 60c; 12 ozs., \$1.25; 1 qt., \$3.00.

LIQUID CHAPERONE

Rabbit Repellent, G & O

Here is a powder when applied around plants will discourage any ambitious rabbit.

It is nonpoisonous and rains do not readily affect it. Also aids in killing Wire Worms in the soil. 1 lb., 45c; 5 lbs., \$1.75.



PUMPKINS

CULTURE. Pumpkins may be planted with corn by planting the pumpkin seed in every 4th or 5th row of corn one way by every 3rd or 4th row across, dropping 4 seeds in a hill. When raised alone, the hills should be 10 feet apart each way, dropping 6 or 7 seeds in a hill and cultivating both ways. Cultivate with a section of the harrow. One ounce of seed will make 15 hills, and about 2 pounds are needed for an acre.

Early Cheyenne

80-90 days

Fruits $2\frac{1}{2}$ to 4 inches deep by 6 to 7 inches in diameter; weighs $2\frac{1}{2}$ to 3 lbs., smooth, slightly ribbed of reddish-orange color. Flesh reddish-orange, fine texture, rich flavored and fiberless. Of finest quality for winter pies. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**



Early Sugar or Pie Pumpkin

Early Sugar or Pie★

115 days

This pumpkin is small, round, slightly ribbed, skin and flesh deep orange. Flesh is very thick, fine grained, sweet and of finest quality. A big yielder and a good keeper. One of the best for pie. **Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.40.**

Winter Luxury Pie

110 days

Round, medium in size with a golden yellow skin, closely netted. Exceptionally fine for pies and a good keeper. Flesh is thick, sweet, tender and of fine flavor. A home garden favorite. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$2.00.**

Connecticut Field★

115 days

The standard field pumpkin. It is largely grown for stock feeding, but is also generally used for pumpkin pie and canning. The outside is reddish orange in color, the inside orange yellow. Is very solid, fine grained and slightly ribbed. Strong and vigorous grower. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.40.**

Gould's Mammoth Field

118 days

One of the largest and best, especially for stock feeding. It is also a good keeper. Often weighs 75 to 100 lbs. **Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$1.75.**

RADISH

CULTURE. Radish should be grown on good rich sandy loam. Avoid seeding in soil where you have had any root crop that became infested with root maggot, if possible. As a preventive of maggots it is well to treat your soil with a good dressing of tobacco dust, crude naphthalene flakes, or Carbola. Apply at intervals of about 10 days.

Plant your radish seed one-half inch deep in rows 12 to 14 inches apart as soon as the soil is in condition to work nicely in the spring. When the plants are about 1 inch high, thin enough to avoid crowding. Cultivate often and shallow to retain moisture and destroy weeds.

EARLY ROUND RADISHES

Gould's Reliable Forcing★

21 days

Is the earliest of the greenhouse forcing type. Skin a beautiful bright scarlet, flesh crystal white, somewhat turnip-shaped, producing a very small top, very desirable for forcing. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.**

Gould's Early Scarlet Globe, Short Top★

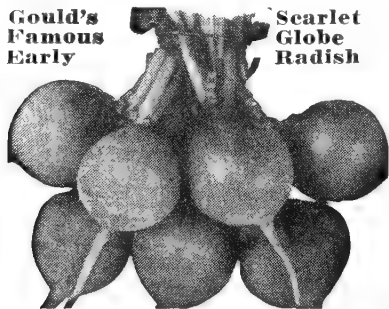
23 days

Recommended for market gardeners planting on muck, peat or especially rich soil. Tops are very short, $2\frac{1}{2}$ to 3 inches. Color bright scarlet-red. Especially developed for summer planting and greenhouse forcing. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90; 5 lbs., \$4.25; 10 lbs., \$8.00.**

Gould's Early Scarlet Globe★

23 days

Gould's Famous Early Scarlet Globe Radish



A selected forcing strain especially adapted to greenhouse and hotbed growing, but may be grown outdoors equally well. The shape is a little longer than round and the skin a bright scarlet, flesh white and crisp. A standard for the market gardener. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90; 5 lbs., \$4.25; 10 lbs., \$8.00.**

Gould's Scarlet Turnip White Tip★

26 days

It is very early and does equally well for greenhouse forcing and for outdoor culture. The flavor is sweet, mild and crisp. The color is a bright scarlet with white tips, making a fine appearance. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90; 5 lbs., \$4.25; 10 lbs., \$8.00.**

Sparkler

26 days

Similar to scarlet turnip white tip, except it has larger white area around tip. The roots are solid, crisp and sweet. The tops are small, but large enough for bunching. Equally well adapted for forcing. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90.**

Crimson Giant

30 days

A large growing sort, of a beautiful deep crimson color. The flesh is white, mild in flavor, firm and crisp. Good for open ground culture or forcing. Roots spherical to slightly top shaped. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90.**

LONG VARIETIES

French Breakfast

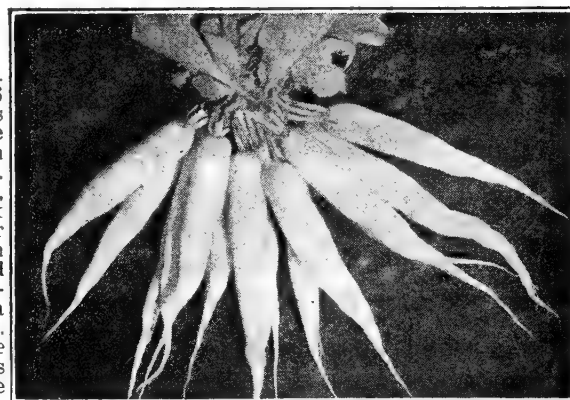
25 days

A favorite for home and market gardens or forcing. Bright scarlet, with pure white tip. Oblong in shape, of medium size, and a rapid grower. It is a fine table variety due to its excellent quality and appearance. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90.**

White

Icicle

27 DAYS.
Roots 5 to 6 inches thick, pure white with small tops. It is crisp, mild, sweet and tender both when young and until it attains a large size. One of the finest sorts for the home garden as well as for market. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90.**



White Icicle Radish.

Long Scarlet Short Top

30 days

A standard and popular well known long red radish of good quality. Matures to a size of about 4 to 5 inches but it can be used before fully grown. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00; 2 lbs., \$1.90.**

White Strasburg

39 days

A large, medium long sort with heavy tapering shoulders. Flesh and skin pure white. Firm and crisp. A fine summer variety. Similar to Icicle but thicker and shorter. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.**

WINTER RADISHES

Try some this year. These grow to large size and keep well for winter and spring use. Sow seed from middle of June to August 1st, for fall and winter use.

China Rose

52 days

Of a bright rose color, flesh solid and crisp. The shape is long but stump rooted, tapering abruptly to a small tip. 6 to 7 inches long. Pack in sand to enjoy fresh, crisp radishes all winter. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.35.**

California Mammoth White

55 days

Largest of all winter radishes. The skin and flesh are white, very tender and crisp. Mildly pungent but well flavored. Roots are about 8 inches long, and 2 to 3 inches in diameter. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.35.**

Long Black Spanish

56 days

One of the largest and best keepers. The shape is oblong, tapering to a point, the skin almost black, flesh white, firm, crisp and pungent. Roots 8 to 9 inches long, $2\frac{1}{2}$ inches in diameter at shoulder. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.35.**

Round Black Spanish★

56 days

A large round turnip-shaped root, growing to as much as 3 to 4 inches in diameter. The skin is black, but the flesh is white, firm, crisp and pungent, an excellent keeper. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.35.**

RUTABAGA

American Purple Top★

88 days

A hardy productive variety with a small neck; roots are large globe-shaped with a very small tap root. The color is a bright yellow with a purple top, flesh solid, tender and sweet. A good yielder and keeper. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.**

Neckless Purple Top★

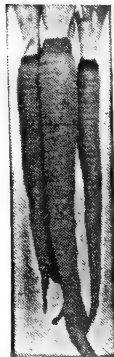
84 days

Grows to medium size. Flesh of a bright golden color. Tops small purple and neckless, flesh deep yellow and fine grained. A very fine variety for table use. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.**

Laurentian★

92 days

A new outstanding purple top variety. Clean, well shaped root, almost neckless, skin thick, good keeper. Flesh light yellow or cream color, fine grained, excellent quality. Top light green, shorter than American Purple Top. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.**



Salsify

SALSIFY (VEGETABLE OYSTER)

Salsify is used the same as carrots, or after having been boiled, make into cakes and fry like oysters which they resemble in flavor. Culture of salsify is the same as parsnips. One ounce of seed will sow 60 feet of row.

Sandwich Island

150 to 180 days

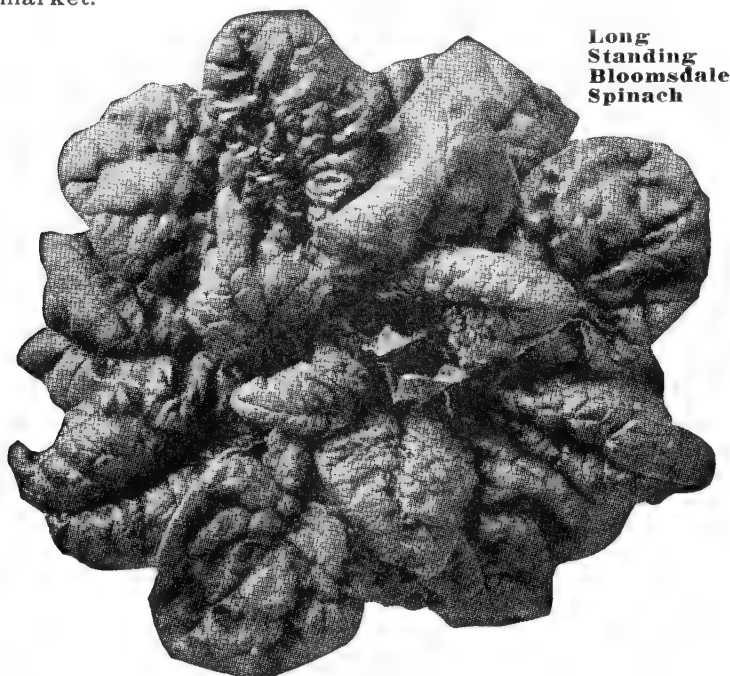
Grows to a large size, is of fine quality and flavor. The roots, when cooked, are very palatable and nutritious with a flavor similar to oysters. A very desirable winter vegetable. **Pkt., 10c; oz., 70c; ¼ lb., \$2.00.**

SORREL

The leaves are esteemed as a salad or may be boiled and served like spinach. Sow in rows 18 inches apart. It is hardy and roots should be divided every 3 or 4 years. Matures in 55 to 70 days. **Pkt., 10c; oz., 60c.**

SPINACH

CULTURE. Sow just as soon as the ground will permit working in spring. Sow in rows 12 inches apart and 1 inch deep. If given some protection over winter, spinach may be sown in the fall for spring use. Spinach being of a leafy growth only, should be kept growing fast in order to be tender and palatable. The soil should be well fertilized with a complete fertilizer. After the spinach is up it should receive a side-dressing of nitrate of soda or sulphate of ammonia about once a week until fit for market.



Long Standing Bloomsdale Spinach

Long Standing Bloomsdale★ f

46 days

Long Standing Bloomsdale has been developed along new and scientific lines of breeding. This strain of Bloomsdale is one of the outstanding varieties for crinkly leaf, standing a week longer in hot weather. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00.**

Heavy Pack★

44-46 days

Plants very vigorous, large and spreading, but not flat. Leaves arrow-shaped with rounded tip, dark green and partially crumpled. **Pkt., 5c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.00.**

Giant Nobel★f

45 days

Large, smooth, deep green leaves, thick arrow-shaped with round tip. Very prolific. Popular with canners as well as home gardeners. Round seeded. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00.**

New Zealand

70 days

While this is not a member of the Spinach family proper, it furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked. Do not sow seed until May 1st or when the soil is fairly warm. Soak the seed before sowing. **Pkt., 5c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.00.**

Round Thick Leaf

45 days

A popular variety for spring and fall planting. Plants have large, long leaves, spreading out on the ground. Leaves thick, arrow-shaped with round tip. A favorite with canners and home gardeners. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00.**

Virginia Blight Resistant

40 days

Dark green crumpled leaves, tapering to rounded point. A fast maturing spring strain, resistant to cold, much used for fall planting. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00.**

King of Denmark★f

45 days

Stands longer than most sorts. Leaves large, rounded, somewhat blistered, deep green. Vigorous grower with spreading habit. Excellent for home gardens and canners. Round seeded. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00.**

TAMPALA

Is a delicious green vegetable, the leaves of which are cooked, prepared and served like spinach. It retains its tenderness for a longer time, has a consistency and flavor all its own, less irony and less puckery than spinach, more flavor, more body, and more food value than either spinach or chard—a pleasing change from all other "greens." Will keep on producing all summer. **Pkt., 15c.**

TURNIPS

CULTURE. Turnips are the easiest to grow of any root crop. Sow in early spring for summer crop, and late in July or early August for late fall crop. One ounce will sow 200 feet in drill; thin to 4 inches apart.

Shogoin

42 days

Adapted to table use for roots, but especially good for greens. Quick growing and supplies large edible leaves and round white roots. Flesh is white, and of excellent quality. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

Extra Early White Milan★

42 days

Similar to the Purple Top Milan, except that the roots are a solid clear white. Flesh tender and sweet. Desirable for spring or fall sowing. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

Purple Top Strap-Leaved★

46 days

Rather flat and of medium size. Color: purple above ground and white below, flesh white, fine grained, sweet and never stringy. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

Purple Top White Globe★

58 days

A general favorite with all, and more largely grown than any other turnip; will do well to sow either broadcast or in drills and will form good sized bulbs in seven or eight weeks. Of a perfect globe shape with smooth white skin; flesh pure white, firm, sweet and crisp. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

Snowball or Early Six Weeks★

43 days

Very early, round with pure white flesh. One of the best table varieties. Very mild and an excellent winter keeper. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

VEGETABLE PLANTS

During the months of May and June we offer seeding or pot-grown vegetable plants in the most popular varieties. The plant season usually begins the forepart of May and extends well into June. We carry exceptionally fine plants and people who want better than the ordinary come to us. Good plants at reasonable prices will be offered in season.

Cabbage, Early.

Cabbage, Late.

Cauliflower.

Celeriac (Root Celery).

Celery Plants.

Chives.

Eggplant.

Ground Cherry.

Parsley Plants.

Peppers, Sweet or Hot.

Tomatoes, include Gould's Standard, John Baer, Earliana, Beauty, Bonny Best, Marglobe, Rutgers, Dwarf Champion, Stone, Ground Cherry, Yellow Plum, Red Cherry, Ponderosa, Jubilee, Pritchard, etc.

SQUASH

CULTURE. Plant when all danger of frost is past. For vining varieties plant in hills 8 to 10 feet apart each way. The early summer or bush varieties may be planted 5 feet apart. Place 8 to 10 seeds in a hill one inch deep. When plants are three inches high thin to 3 or 4 in a hill.

SUMMER VARIETIES

White Bush Scallop

53 days

Matures early and will bear quickly. The squash are large size, somewhat flattened, pure white, with thick flesh of good quality. **Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.**



Buttercup

Sweet Potato Squash

Zucchini (Black)

55 to 60 days

Produces extremely dark green fruits of fine quality. The plants are truly bush, flesh greenish white, well flavored fruits about 12 inches long and 2½ inches in diameter. They are of best quality when 4 to 6 inches long. **Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.**

Cocozelle or Vegetable Marrow*

60 days

The fruit is long and slender, of a dark green color at first, but when maturing it changes to a lighter green with yellowish stripes. In best condition to use when 8 to 12 inches long. May be sliced and fried or baked. **Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.**

Early Prolific Straightneck*

56 days

A selection of summer squash with a straight neck instead of the usual crookneck. It grows about 18 to 20 inches in length, is very thick meated and has a beautiful orange color. **Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.**

Golden Summer Crookneck

55 days

Early and prolific. The fruits are of true crookneck type, heavily warted and of light golden color, 18 to 24 inches long, 4½ inches through. For home or market garden and shipping. **Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.**

WINTER VARIETIES

Mammoth Chili

110 days

An extra large variety used mostly for stock feeding, often weighing 60 pounds each. Produces a very cheap and nutritious feed. **Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50.**

Banana Squash

110 days

One of the best varieties for either summer or winter use. Shell is grayish-green and the flesh is a deep golden color. Cooks smooth and of a delicious flavor. Fruits measure 20 to 24 inches long, 6 inches thick. Excellent for pies. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Butternut Squash*

103 days

Do not confuse this squash with Buttercup. Butternut is a winter variety of very high quality. Flesh is golden orange, firm and of smooth texture. It is not stringy. Fruits are club shaped, about 10 to 12 inches long, 4 to 5 inches in diameter. Skin is tan-cream in color. Excellent baking squash. **Pkt., 15c; oz., 45c; ¼ lb., \$1.25.**

Golden Delicious*f

100 days

Its dry flesh makes it desirable for canning and home gardens. Fruits top-shaped, weight 7 lbs. Skin bright reddish orange with deep green tip at blossom end. Thick sweet flesh, medium grained, golden orange color. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

Sweet Potato Squash (Delicata)

100 days

Fruits grow 6 to 8 inches long. Have very thick flesh, unusually sweet and tender. They are a real table delicacy when baked and served with butter. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.**

Buttercup*

100 days

An introduction by Prof. Yeager of North Dakota. It is medium to small in size, the yellow flesh is very thick and the flavor delicious. The shape is somewhat of a turban with a tendency to being flat. Outside color is dark green with silvery white lines. **Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50.**

Table Queen*

80 days

Fruit acorn shaped, color dark green, size 6 inches long and 4 inches in diameter, of good quality. Flesh is rich orange-yellow, cooking as dry and sweet as a sweet potato. A fine variety for home or market garden. **Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.**

Mammoth Table Queen*

80 days

Similar to the well known Table Queen excepting size which is about double that of the regular Table Queen. **Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.**

Gould's Blue Hubbard*

110 days

A strain of the regular Hubbard. Fruit is large, blue-gray shell, long keeping and finest quality. A very popular variety. Flesh is bright yellow, thick, fine grained, very dry and sweet. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

Gould's Improved Hubbard*

110 days

This squash is the favorite for long keeping. The vines are strong and very productive. The skin is rather smooth, of a dark green color. When well matured and dried, it becomes very hard and will keep well into the winter. Flesh is bright orange yellow, fine grained dry, sweet flavored. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

Chicago Warted Hubbard*

110 days

Very similar to Gould's Hubbard, but skin is darker and covered with heavy warts. Also a good keeper. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.**

SWISS CHARD

Chard is rich in Vitamin A and iron, also good for Vitamins A and C and calcium.

Fordhook Swiss Chard

50 to 56 days

This variety is highly esteemed for the broad, white leaf stalks and midribs which are cooked and served in the same manner as asparagus, making a most delicious vegetable. Cook leaves like spinach, midribs like asparagus. **Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.**

Giant Lucullus Swiss Chard

50 to 55 days

The largest and the favorite of the chard family. The leaves are very large and curly and make a very attractive dish when cooked up as greens. **Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.**

Burpee's Rhubarb Chard

60 days

A new Swiss chard that looks like rhubarb—large center rib of beautiful red. Grows quick and continuous for several months. Delicious and tasty with a fine flavor. **Pkt., 10c; oz., 25c.**

TOBACCO

Sow tobacco seed in greenhouse or hotbed in March or April and transplant to the open field when danger of frost is past. Connecticut leaf. **Pkt., 10c; oz., \$1.00.**

TOMATO

Listed in Order of Earliness.

CULTURE. Tomato seed should be planted in a box in the house or in hotbeds or greenhouse about the 1st of March, then transplanted once or twice to develop the roots to a good size before setting out in the open. Do not set out until all danger of frost is past, as tomatoes are easily damaged by frost.

Jubilee Tomato (Yellow)

90 days

Third place winner in the 1943 All-America vegetable awards. Jubilee is different from any tomato ever grown. Skin is yellow, flesh a beautiful tangerine orange. A heavy bearer and quality and flavor equal to the red tomato. **Pkt., 15c; ¼ oz., 60c; ½ oz., 90c; 1 oz., \$1.50.**

Earliana "Private Stock"*

95 days

The result of many years' selection from the most perfect and earliest stock. Produces more uniform fruit of a smooth, perfect shape than any other early variety. **Pkt., 15c; ¼ oz., 85c; ½ oz., \$1.50; 1 oz., \$2.50; 2 oz., \$5.00.**

Spark's Earliana

98 days

One of the very earliest sorts. Fruit of fair size, color bright scarlet. A prolific bearer, yielding fruit in clusters, particularly in warm, sandy soil. **Pkt., 10c; oz., \$1.25; ¼ lb., \$4.00; 1 lb., \$11.50.**

Break O' Day

98 days

A wilt-resistant tomato developed by Dr. F. J. Pritchard of the U. S. Dept. of Plant Industry. Is nearly as early as Earliana and as productive as Marglobe. Fruits are large, smooth, meaty, red and globe-shaped. Free from cracking. **Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$9.50.**

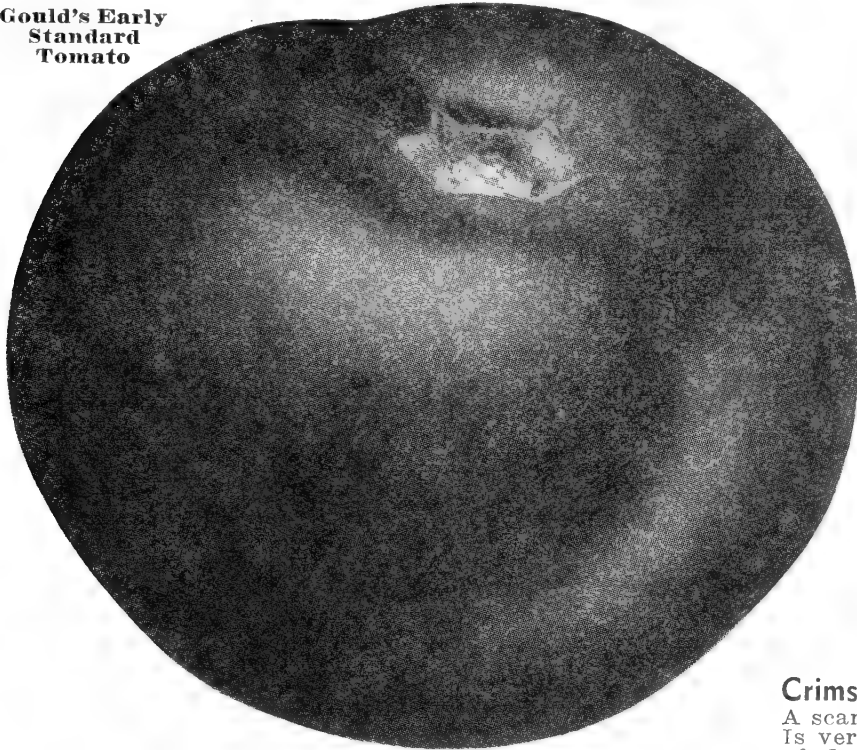
TOMATO—Continued

Gould's Early Standard★f

98 days

Gould's Early Standard is the result of years of experimenting to obtain a meaty, heavy bearing tomato, that would produce early and bear fruit until frost. It has no equal for the home garden or for market, being an excellent keeper and shipper, fruit being firm, coloring beautifully, producing abundantly from early summer till frost. Flavor is unsurpassed. Unexcelled for canning. No expense has been spared to make Gould's Early Standard the best tomato grown anywhere. **Pkt., 15c; 1/8 oz., 60c; 1/4 oz., \$1.00; 1/2 oz., \$1.75; oz., \$3.00.**

Gould's Early
Standard
Tomato



Firesteel★

98 days

Makes a small vine with large fruited tomatoes that are early, smooth, red throughout, of semi-acid flavor. For dry seasons there is nothing equal to Firesteel. It will set fruit when other types are dropping their blossoms. **Pkt., 10c; oz., \$1.25; 1/4 lb., \$4.00.**

John Baer★

105 days

Is considered one of the best early tomatoes grown. Fruit is smooth, uniform in size, nearly round, firm and of excellent quality. Will hold up well for shipping. It is a heavy bearer that will last all summer. A favorite with market gardeners, shippers and canners. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Bonny Best★

105 days

A very popular second early variety. Ripens a few days later than Earliana. Vines are vigorous, prolific, fruit red, solid, medium in size, smooth, small core and very uniform in size and color. A very popular variety for early market and also a good home garden tomato. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Pritchard★f (Scarlet Topper)

107 days

This variety is the most disease, wilt and rust-resisting tomato. The fruits are scarlet, large, globe-shaped and very attractive, similar to Marglobe. Pritchard is highly recommended for both home and market garden. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Valiant★

108 days

For an early tomato, Valiant produces a wonderful crop under normal weather conditions. It is not recommended for canning. Fruit is large, smooth, round and of brilliant scarlet color. **Pkt., 10c; oz., 75c; 1/4 lb., \$2.25.**

Marglobe★f

110 days

A fine blight resistant tomato and very disease resistant. It produces immense yields of handsome deep red globe-shaped tomatoes of good size with a flavor that is a happy medium between the acid and non-acid sorts. The shape and size make this a very desirable salad or slicing tomato. A fine tomato for the home or market garden and for shipping. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Seeds are postpaid in packets only. In larger amounts add postage at the rates given on page 3.

Livingston's Beauty★

110 days

The vines are large, vigorous and very productive. The fruit is large, uniform in size and very smooth. The skin is purplish-pink and flesh is pink; very solid and fine flavored. A splendid sort for slicing. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Stokesdale★

110 days

A large, second early, round tomato of intense scarlet color. A heavy yielder and a market gardener favorite. Comparatively free from stem-end crack. Very meaty and of fine flavor. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Rutgers★f

112 days

This is an introduction by the New Jersey Agricultural College. It is especially adapted for market gardeners, the flesh being firm and sparkling red, maturing about the same time as Marglobe, which it also resembles. **Pkt., 10c; oz., 80c; 1/4 lb., \$2.50; 1 lb., \$8.00.**

Stone★

115 days

This is one of the most popular of the late varieties. It is a good late canning tomato and market garden variety unsurpassed for slicing. The plants are strong and vigorous and produce a heavy yield of fruit where the growing season is long. The fruit is bright red in color, of good size, smooth, round, meaty and fine flavor. **Pkt., 10c; oz., 70c; 1/4 lb., \$2.00; 1 lb., \$6.00.**

Ponderosa

120 days

This is the largest fruited tomato. It is solid with very small seed cells, of very fine quality for slicing. Some of the fruit is oblong in shape and somewhat ribbed. The color is purplish red. The vines are strong and if staked will grow to a height of 6 or 7 feet. **Pkt., 10c; oz., \$1.50; 1/4 lb., \$4.50.**

Crimson Cushion or Beefsteak

120 days

A scarlet "sport" from Ponderosa which it also resembles. Is very large, round, with bright scarlet skin, solid flesh of fine quality and seed cells small. Plants are very prolific. **Pkt., 10c; oz., \$1.50; 1/4 lb., \$4.50.**

Dwarf Champion

125 days

Dwarf and compact and sometimes called "Tree Tomato." Stands up well even when loaded with fruit, having a stiff, bushy stem. May be planted close together making it desirable for small gardens. The fruit is of a purplish pink color, medium size, smooth and nearly round. Skin is tough and flesh solid. **Pkt., 10c; oz., \$1.50; 1/4 lb., \$4.50.**

Oxheart

130 days

Fruit is large and very solid with few seeds. It is heart-shaped, the skin pink, and the flavor delicious. Used for second early and main crop. A fine variety. **Pkt., 10c; oz., \$2.00; 1/4 lb., \$6.00.**

"GARDEN HUCKLEBERRY" OR WONDERBERRY.

Not a true Huckleberry, but belongs to the tomato and pepper family. The fruit is deep purple, nearly black, round and slightly smaller than a Concord Grape. The fruit makes delicious pies, preserves and jams. Fruit should be fully ripened to be edible. Plants, 3 feet. Culture same as tomatoes. **Pkt., 10c.**

SMALL FRUITED TOMATOES

Ground Cherry or Golden Husk

120 days

These are greatly valued for preserves, pies, etc. Small yellow fruits enclosed in a thin, papery, husk. Very sweet and mild. **Pkt., 10c; oz., \$1.00.**

Italian Red Plum

120 days

This is a bright red plum shaped tomato. The fruit is borne in clusters of six or more. It is very prolific and is used extensively for salads and preserves. **Pkt., 10c; oz., \$1.00.**

Red Cherry

120 days

Small, round, rich deep red fruits, 1/2 inch in diameter. Used for salads, pickling, etc. **Pkt., 10c; oz., \$1.00.**

Yellow Pear

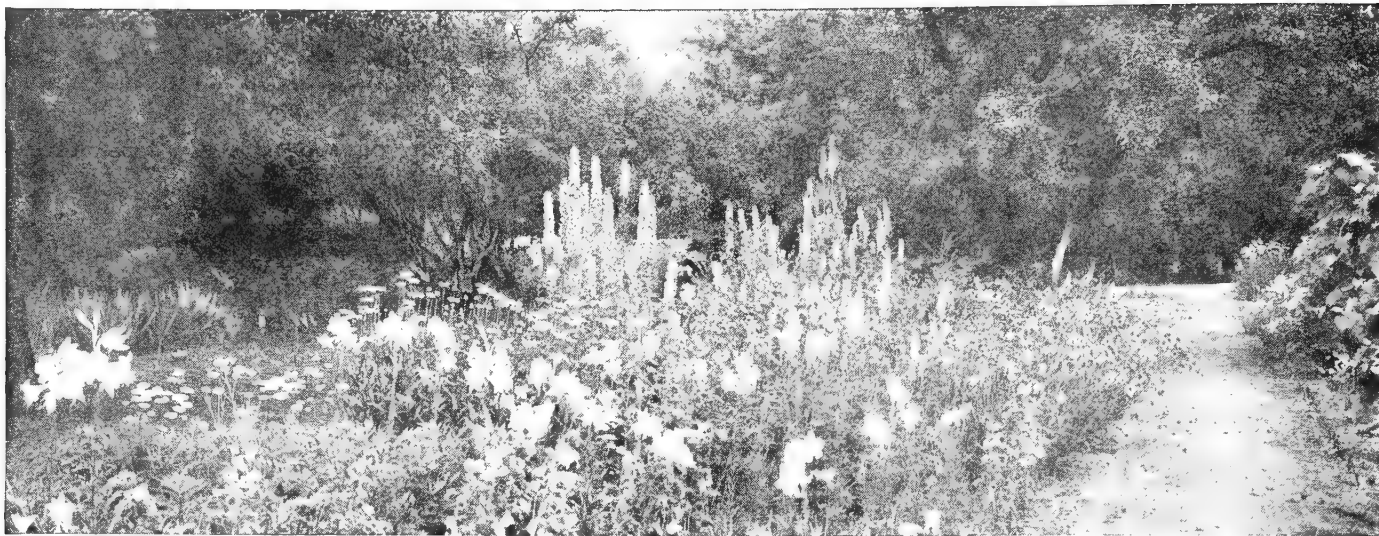
120 days

Fruit is pear shaped, slightly larger than the Yellow Plum, of clear yellow color. **Pkt., 10c; oz., \$1.00.**

Yellow Plum

120 days

A small yellow fruited variety, finely flavored, resembling a plum in size and form. Used mostly for preserving. **Pkt., 10c; oz., \$1.00.**



ANNUAL FLOWER SEEDS

FLOWERING PLANTS

During May and June we offer seedling flowering plants in the most popular varieties. Weather conditions determine just how early plants are ready, but the plant season usually begins the forepart of May and extends well into June. At the time this catalog is being printed in late January we are unable to quote prices, due to uncertainty of the many factors that enter into the cost of raising plants. We also have Geraniums, Pansies, Cannas, Vinca Vines, Daisies in baskets and pots for the window box or garden, and perennial plants.

CULTURE SUGGESTIONS FOR FLOWER SEEDS

Flower seeds should not be planted out before ground warms up. Before planting, soil should be worked up and enriched with fertilizer. This is very important and will make a wonderful difference in your plants. Do not sow your seeds when ground is wet. A good rule is to cover seeds four to six times their diameter, which means that some varieties need merely to be pressed into the soil. Most seeds are planted too deeply. Press the earth firmly around the seed when planting. As plants come up, thin out to prevent crowding. Place supports around tall-growing varieties so that they will not be damaged by wind and rain.

Starting Indoors. In order to get earlier flowers and a longer blooming season, a number of annuals such as Antirrhinum or Snapdragon, Carnations, Celosia, Lobelia, Pansies, Petunias, Salpiglossis, Stocks, Verbenas and others had best be started indoors, or in cold frames.

Abronia (Sand Verbena)

Delights in dry, poor soil and sunny situation. A rapid grower for baskets, window boxes or rockeries. Its fragrant flowers of bright rose with white center bloom in summer and fall. Plants 6 in. **Umbellata.** Pkt. 5c.

Acroclinium (Everlasting)

Plants about 15 inches high. Lovely white or rosy pink flowers, which when cut in the bud state, can be dried and used in winter bouquets.

New Large Flowered Double Hybrids. Greatly improved, the flowers are twice the size of the ordinary strain. Mixed colors. Pkt. 5c.

Agatheia (Blue Daisy)

An old greenhouse plant, 1 to 2 feet tall, with roundish ovate opposite leaves and an abundance of sky-blue, daisy-like flowers. Use for bedding in a protected place, also fine for house plant. **Coelestis.** Pkt. 10c.

Ageratum

A half hardy annual of easy culture, especially adapted for borders and bedding as it is literally covered with clusters of feathery blossoms from early summer until frost.

Ageratum, Midget Blue. Only 3 to 4 in. tall, with dense spread of 12 in., freely producing tiny tufts of true ageratum-blue or azure-blue flowers. Truest and most compact dwarf variety so far seen. Pkt. 15c.

New Ageratum Fairy Pink. A dwarf compact plant of a delightful soft salmon rose-pink color. Begins blooming when 2 inches high, at its maximum height of 5 inches, forms a solid compact mass of blooms. Pkt. 15c.

Blue Ball. Dwarf Compact. Deep dark blue, 9 in. high. Pkt. 10c.

Blue Cap. Dwarf Compact. Miniature. 6 in. high. Pkt. 10c.

Blue Perfection. Semi-dwarf. 8 inches high. Pkt. 10c.

Little Blue Star. Flowers open light blue with purple center. 4 in. Pkt. 10c.

Mexicanum Blue. 18 in. high. Pkt. 10c.

Alyssum, Sweet

For borders, edging and rock work, we recommend a liberal use of this dainty little flower. It will keep blooming well into November here in the Northwest. Stands many severe freezes.

Little Gem. Of dwarf compact habit, only 4 inches high. Plants start blooming very early and flower until late in the fall. One of the easiest grown. Pkt. 5c; 1/8 oz., 20c; 1/4 oz., 30c; 1/2 oz., 50c.

Violet Queen. Plants are dwarf, compact, neat in habit, free flowering. The small sweetly scented flowers are a rich, deep shade of violet. Pkt. 5c.

Carpet of Snow (Procumbens). 2 to 3 inches high, pure white flowers that bloom so freely that the plant has a snow-like appearance all summer. Pkt. 5c; 1/8 oz., 25c; 1/4 oz., 35c; 1/2 oz., 55c.

Snow Cloth (Procumbens). An excellent new selection, plants flat, compact mass of pure white flowers. Pkt. 5c.

Maritimum. Of creeping habit, 9 in. Fragrant white flowers bloom all summer. Pkt. 5c.

Lilac Queen. A very pretty dwarf plant growing about 6 inches high, of deep lavender-lilac color. Pkt. 5c.

Minimum. A dwarf plant, 2 to 3 inches high, with white flowers. Pkt. 5c.

Anagallis (Pimpernel)

Dwarf plants 6 to 8 inches tall, with blue or red flowers. Bloom freely all summer. Flowers close at the approach of bad weather. Very effective for edgings, rockeries or in pots. Does best in a sunny location. **Grandiflora**, mixed colors. Pkt. 5c.

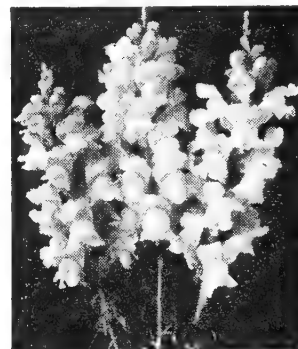
Amaranthus

Brilliant foliated annuals used as centers of large beds or for borders of tall plants. Give plants plenty of room. Grow 3 to 5 feet high. Mixed. Pkt. 5c.

Anchusa (Cape Forget-Me-Not)

A rare annual, grows 2 feet high, blooming all summer. It resembles a large beautiful Forget-Me-Not of deep blue color. Thrives in shade. Pkt. 5c.

Antirrhinum (Snapdragon)



One of the most popular cut-flowers. Giant Snapdragons grow 2 to 3 feet high; flowers closely placed on the stem. For early blooms sow indoors in March and set out in the open after all danger of frost is past. Plant or thin to 9 inches apart.

Grandiflora Rust Resistant. In some sections of the country Antirrhinums cannot be grown on account of the rust which attacks the foliage. The rust resistant varieties now assure success.

Amber and Gold. Golden amber.

Apple Blossom. Rose pink, white tube.

Campfire. Luminous scarlet.

Canary Bird. Giant yellow.

Copper King. Bronze brown.

Garnet. Velvety crimson.

Indian Girl. Old gold.

Loveliness. Soft rose pink.

Pink Glory. Deep salmon-rose.

Pink Sensation. Pure pink.

Shasta. Pure white.

Wild Fire. Bright orange scarlet.

Yellow Giant. Deep yellow.

All Colors Mixed or Individual Colors of the above. Pkt. 10c.

Super Majesties, Rust Resistant. This type is base-branching, valuable for cutting. **Superb Mixed.** Pkt. 10c.

Tetra, Giant Ruffled Superfine Mixture. Exciting new ruffled snaps, the largest flowered of all snapdragons in beautiful colors and combinations. Pkt. 25c.

Velvet Giant. A 1947 All-America, large flowers of velvety texture and deep crimson color with an orange-bronze undertone. Pkt. 25c.

Arctotis (African Daisy)

A handsome annual, forming a branching bush 2 to 3 feet high. Its flowers are large and showy, being pure white on the upper surface, the reverse of the petals being a pale lilac blue. Blooms from early summer until frost. Pkt. 10c. **Large Flowered Hybrids.** Many colors. 1 ft. Pkt. 10c.

Asters

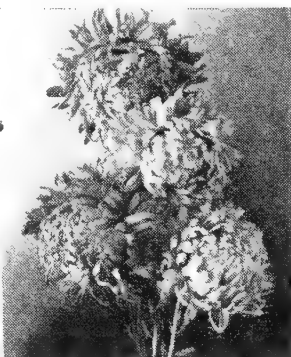
Rose Marie. A 1940 All-America. Best cut-flower color of rose-pink; highly fluffy centers and long, narrow petals on 3 to 4-in. flowers, borne on long, stout stems. Wilt-resistant. For florist and garden culture. Pkt. 10c.

Aster Early Giant. Wilt-Resistant, Light Blue. A 1939 All-America. Delightful clear blue, extremely large flowered, early bloomer. Pkt. 10c.

Hearts of France. Wilt R.

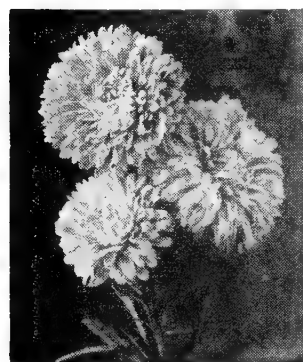
Medium size flowers open ruby-red and color deepens with age. Plants are 1½ to 2 feet tall, of branching type and very robust. Begin to bloom early. Pkt. 10c.

Early Beauty. Wilt R. Flowers from early July until frost. The plants are from 2½ to 3 feet, with long, stout stems bearing large flowers. Crimson, Purple, White, Azure Blue, Deep Rose, or Mixed. Pkt. 10c.



Aster Beauty

Queen of the Market. Wilt R.



Aster, Queen of the Market

About two to three weeks earlier than most other Asters; bloom profusely and are of graceful habit. Flowers are borne on long stems, making them very desirable for cut flowers. 15 inches high. Crimson, Dark Blue, Light Blue, Scarlet, Azure Blue, White, Rose or Mixed. Pkt. 10c.

Single Chinensis. Wilt R.

Plants 2 to 2½ feet, flowers daisy-like, petals wide and closely placed. Showy plants. Mixed colors. Pkt. 10c.

Improved Crego Giant Comet Aster

This fine Aster grows over 2 feet tall and is well branched; of free, sturdy growth. The fluffy graceful flowers resemble the Chrysanthemum in form, rarely less than 3 inches across.

WILT RESISTANT

Crimson, Azure Blue, Purple, Deep Rose, Orchid, Navy Blue, White, Rose Pink or Mixed. Pkt. 10c.

Improved Giant California Sunshine

This Aster blooms in mid-season with flowers 4 to 5 inches across, composed of a single row of loosely placed outer petals which contrast with the unique yellow quill-like center disc. Plants, 2 to 3 feet. Finest Mixed. Pkt. 10c.

American or Vick's Late Branching

This 'superb strain produces plants 2 to 3 feet high, bearing on long strong stems their handsome chrysanthemum-like flowers 4 inches across. The large, fluffy blooms are double to the center.

WILT RESISTANT

Crimson, Deep Rose, Purple, Azure Blue, Light Rose, White or Mixed. Pkt. 10c.

Improved Giants of California

The flowers are much larger than the Improved Crego, about 6 inches in diameter, and are unsurpassed as cut flowers. Their immense size and beauty, as well as their long and sturdy stems make them very attractive. Plants, 2½ to 3 ft. Mixed colors, double. Pkt. 10c.

Golden Sheaf. Wilt R.

The deepest Yellow Aster that is wilt resistant. The flowers are fully double, with an attractive crest-like center, of good substance and fine depth of petal. Plants, 2 feet tall. Pkt. 10c.

Ball. Wilt R.

Bright deep Rose, early.....Pkt. 10c
White, large flowers, late.....Pkt. 10c
White, early.....Pkt. 10c
Deep bright Purple, early.....Pkt. 10c

Early Royal. Wilt R.

Plants branching, 1½ to 2 feet, blooming directly following the Queen of the Market. Azure Blue, Deep Rose, Scarlet, Purple, Coppery Rose, White or MixedPkt. 10c

Imbricated Pompon Aster.

Plants upright, 14 to 16 inches, small round pompon flowers, outside row short guard petals, very early. Finest MixedPkt. 10c

Bachelor's Button (See Centaurea Cyanus)

Climbing Vines from Seed

Canary Bird.	Ipomea.
Cardinal Climber.	Japanese Hop.
Cobaea.	Moon flower.
Cypress Vine.	Morning Glory.
Dolichos.	Nasturtium, tall.
Gourds.	Scarlet Runner.
Humulus.	Thunbergia.
Hyacinth Bean.	Wild Cucumber.

Balsam (Lady Slipper)

Showy and easily grown tender annuals, succeeding best in sunny locations where there is rich loam. We offer very large, extra double flowers in several colors and shining green foliage. Bloom from July to October. 18 inches high. Mixed colors. Pkt. 10c.

Bartonia Aurea (Blazing Star)

Very showy hardy annuals producing golden yellow flowers during the summer above its gray and downy thistle-like foliage which is exceedingly brilliant in the sunshine. Blooms measure 2½ inches across. Sow it where it is to remain as it does not bear transplanting. Prefers moist situation. Fine for borders. 12 to 18 in. Pkt. 5c.

Beans, Scarlet Runner

A rapid growing annual climber, producing bright red flowers from July to September. The dense foliage makes it splendid for porches or wherever shade is desired. Vines grow about 10 ft. Pkt. 10c.



Brachycome.
Swan River Daisy.

Brachycome

(Swan River Daisy)

A dwarf, free-flowering plant which blooms in great profusion the greater part of the summer.

The daisy-like flowers are blue and white, plants about 9 to 12 inches tall. Mixed colors. Pkt. 10c.

Browallia

Pretty flowering annuals suitable for summer bedding. The white or blue flowers are fine for cutting. Lift and cut back for house planting. 12 inches high. Elata Mixed. Pkt. 10c.

Bush Balsam

Differs from the Lady Slipper Balsam in that the flowers appear in clusters on the top of the stems like double roses, instead of hidden on the sides of stem. Plants are 18 to 24 inches high. Our mixture contains shades of white, rose and red. Mixed. Pkt. 15c.

For Window Boxes, Hanging Baskets, etc.

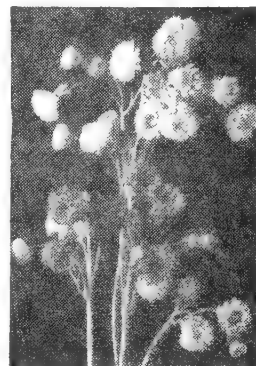
Abronia.
Ageratum.
Alyssum.
Calendula.
Candytuft.

Geraniums.
Lantana, dwarf.
Lobelia.
Nasturtium.
Petunia.

Cacalia

(Tassel Flower)

An attractive bedding plant about 18 inches tall bearing tassel-like orange and scarlet flowers on long, wiry stems. A good cut flower. Blooms from June to frost. Mixed. Pkt. 10c.



Cacalia

Calendula

Free flowering plants of easy culture, succeeding everywhere and flowering continuously. The flowers are double, showy, of large size and pleasing colors. Height, 15 to 18 inches.

Mixed colors. Pkt. 5c.

Frisled Beauty. Deep orange with frilled petals. Pkt. 5c.

Balls Apricot. Rich apricot with dark brown center. Pkt. 5c.

Balls Gold. Dark golden yellow flowers of erect habit, long stems. Pkt. 5c.

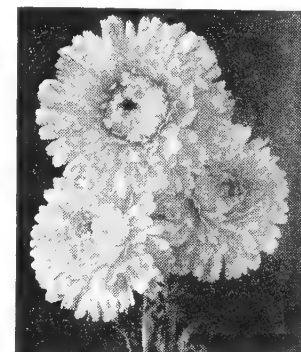
Balls Orange. Immense double flowers of a brilliant glistening orange, borne on long stems. Pkt. 5c.

Balls Masterpiece. Long stemmed, deep orange, brown center. Pkt. 5c.

Pastel Shades Mixed. Beautiful blend of large double varieties. Blooms over a long period. Excellent for cutting. Pkt. 5c.

Orange King. Orange red with a dark center. Pkt. 5c.

Yellow Colossal. Clear yellow, large. Pkt. 5c.



Orange Shaggy. Deep orange in color, excellent for both garden and cutting. Pkt. 5c.

Campfire Improved. One of the best early forcing varieties. Flowers are dark orange, highlighted with a scarlet sheen. Pkt. 5c.

Calendula, Chrysantha

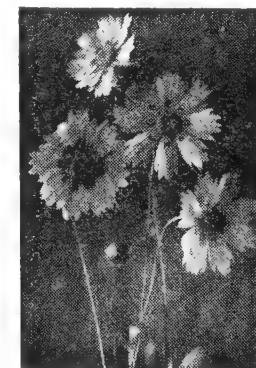
Chrysantha. Is distinct in type, outstanding among all varieties. The large double flowers are an exquisite shade of clear yellow. Pkt. 5c.

Calliopsis

Showy and free-flowering annuals, blooming all summer. Excellent for cutting. You will prolong the blooming season by keeping old flowers cut off. Sow where they are to remain and thin to 8 to 12 inches apart. Of easy culture.

Tall mixed. 24 to 30 in. Pkt. 5c.

Dwarf mixed. 6 to 10 in. Pkt. 5c.



Calliopsis

Gold Crest. Semi-double. Golden Yellow, Reddish-Brown center. Pkt. 5c.

Candytuft

Showy branching plants for edging or to fill in empty spaces in the garden. Desirable for cut flowers. Blooms 8 weeks from sowing and until frost. Plants grow from 12 to 18 inches high and succeed in any light airy place. Do not plant closer than 6 inches apart, but 8 inches is better.

Umbellata. Lilac, White, Crimson, Rose, Red, 12 inches. Each, pkt. 5c.

All colors mixed. Pkt. 5c.

Hyacinth Flowered. White, 12 inches. Pkt. 5c.

Little Prince. Snow White, 6-8 inches. Pkt. 5c.

Canterbury Bells (Annual)

Annual Canterbury Bell has been developed that will bloom from seed in less than six months. The plant grows 2 to 2½ feet tall, each plant having from 6 to 8 spikes of bloom. We offer mixed packets only, of the following colors: Pink, Rose, Dark Blue, Light Blue and White. **Mixed colors.** Pkt. 10c.

California Poppy (Eschscholtzia)

This is the state flower of California. The beautiful and brilliant poppy-like flowers produced on a low-growing and finely-cut silver foliage will bloom freely from spring until frost. Seed must be sown where they are to remain. Plants are about 12 inches tall.

Hybrida Dwarf Erecta Mixed. Pkt. 5c.

Aurantiaea. Orange, spreading type. Pkt. 5c.



California Poppy

Golden West. Yellow orange center. Pkt. 5c.

Lovely. Carmine rose, suffused salmon. Dwarf. Pkt. 5c.

Ramona Hybrids. Flowers are beautifully frilled and incurved. Finest mixed. Pkt. 5c.

Creamy Crinkles. Large extra double flowers of a delightful apricot - buff. Most unusual. Pkt. 10c.

Canna

Cannas can be grown from seed if planted early. Seed germinates irregularly in two to four weeks. Plants 2½ to 4 feet tall. **Mixture from newest varieties.** Pkt. 10c.

Cardinal Climber

This is a very attractive, rapid growing climber, attaining a height of 25 feet, with deep cardinal-red flowers and fern-like foliage. Flowers are about one inch in diameter and are borne in clusters five to seven blooms each, from mid-summer till frost. Does best in a sunny situation and rich soil. Pkt. 15c.

Carnation

Chabaud's Giant Double. Bloom 5 to 6 months from sowing. Vigorous erect plants produce double, clove-scented flowers of large size. Grows 18 in. high. Mixed colors. Pkt. 10c.

Marguerite. These carnations bloom in about five months after sowing. The flowers are of brilliant colors, ranging through many beautiful shades of red, pink, white, and variegated. About one-half the blossoms are extremely double, while balance are partly double and single. Most beautiful for cut flowers and very fragrant. Seeds should be sown indoors in February and transplanted to the open when all danger of frost is past. Height, 18 to 20 inches. All colors mixed. Pkt. 10c.

Castor Bean (Ricinus)

Ornamental plants of stately growth and picturesque foliage, with brilliant colored blossoms, producing a tropical effect. It thrives in rich well-drained sandy or clay loam, but is not suited for stiff clay or very sandy soil.

Zanzibariensis. The ornamental leaves of a variety of colors beautifully lobed, are 2½ to 4 ft. across. Each plant thickly set from top to bottom. Height 10 to 12 ft. Pkt. 5c.

Mixed. Height 5 to 12 ft. Pkt. 5c.

Flowering Plants

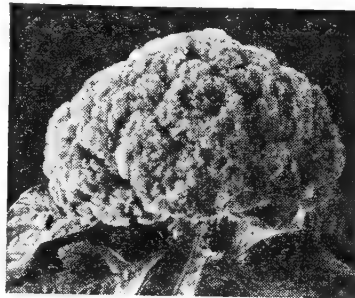
During the months of May and early June we offer daily many thousands of annual seedling flower plants.

Celosia Childsii (Chinese Woolflower)

Plants grow 2 to 3 feet high; the bloom starting early with a central globular head which reaches an immense size. Many branches are thrown out, each bearing a woolly-like ball of scarlet. These blooms of scarlet balls will continue to multiply and enlarge until killed by frost. Pkt. 5c.

Celosia Cristata (Cockscomb)

Freely flowering annuals of easy culture, producing large comb-like heads. Does best in light soil, not too rich.



Celosia, Dwarf Cristata

Tall, mixed, 24 to 30 in. high. Pkt. 5c.
Dwarf, mixed, 8 to 12 in. high. Pkt. 5c.

Celosia Plumosa

(Feathered Cockscomb)

These are extra fine in groups, similar to the Cristata in habit of growth. Blossoms are slender, of a feathery appearance. Height 18 to 24 inches. Mixed. Pkt. 5c.

Best Annuals for Cemetery

Ageratum.	Lobelia.
Alyssum.	Pansy.
Coleus.	Petunia.
Geranium.	Portulacca.

Centaurea Cyanus

(Double Bachelor's Button or Cornflower)



Centaurea Cyanus or Bachelor's Button

dark red; Blue Boy, true cornflower blue; Snowman, white; also in mixed colors. Pkt. 5c.

The varieties listed below are Double Giant strains, noted for their long stemmed flowers, especially fine for cutting. Plants grow 2 to 2½ ft. high and if faded flowers are cut off, will bloom continuously throughout the summer.

Black Boy, black maroon; **Pinkie,** rose pink; **Red Boy,** dark red; **Blue Boy,** true cornflower blue; **Snowman,** white; also in mixed colors. Pkt. 5c.

Climbing Vines Special Mixture

This mixture consists of Morning Glory, Hyacinth Bean, Wild Cucum-ber, Cypress Vine, Ipomea, Climbing Nasturtiums, etc. Pkt. 5c.

Centaurea Cyanus Dwarf Jubilee Gem. Plants are dwarf, compact, about 1 ft. tall, and covered with vivid blue, double blooms. Fine for rockery, garden and as a pot plant. Does best in semi-shade. Pkt. 5c.

Centaurea Imperialis (Sweet Sultan)

The most beautiful of all Centaureas. The sweet-scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for days in good condition. It is of easy culture and one of the best annuals for cut flowers. Blooms all summer. Height, 15 to 24 inches. Finest mixed. Pkt. 5c.

Chrysanthemum

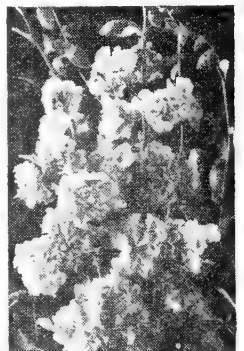


Chrysanthemum, Single Annual

Finest single or double-mixed. Pkt. 5c.

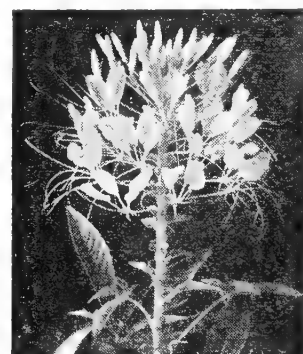
Clarkia Elegans

Bright and attractive annuals of easy culture. The long graceful sprays are valuable for table decoration. They thrive in sun or shade, growing 2 to 2½ feet high, with masses of double flowers and buds which will all open in water when cut. Blooms July and August. Mixed colors. Pkt. 10c.



Clarkia Elegans

Cleome (Spider Plant)



Cleome, Pink Queen

Giant Pink Queen. A tall and attractive border plant, 4 ft. high. Flowers of a delightful refreshing pink. Blooms from June until frost. Pkt. 10c.

Cobaea Scandens (Cathedral Bells)

One of the handsomest and most rapid growing of the annual climbers. Climbs twenty to thirty feet in a season. The flowers are bell shaped, white or blue color. Should be started indoors. Blue. Pkt. 10c.

Coix Lachryma (Job's Tears)

An ornamental grass with broad leaves and shiny, pearly-like beads. Height from 30 to 40 inches. Plant early in the spring, four or five seeds in a hill, one-half inch deep, at a distance of 12 or 15 inches apart. Pkt. 5c.

Corn, Ornamental Indian (Squaw)

The ears of corn have multi-colored kernels, much desired for ornamental decorations. Pkt. 5c.

Cosmidium

Plants grow two feet tall and produce a succession of blooms all summer. Flowers are golden yellow with a broad circle of rich orange around the disc. Pkt. 5c.

Cosmos

The Cosmos is one of the most attractive of the autumn flowering annuals. Its graceful flowers borne on long stems, rising above the feathery foliage, are very desirable for cut flowers, lasting for a week or more in water. Very effective for interplanting with early blooming perennials.

Gould's Extra Early Cosmos is the earliest of its kind, growing to a height of about 4 feet and if seeded in the open as soon as the soil is in condition, or transplanted from plants after all danger of frost, Cosmos will bloom from July until frost.

White, Pink, Crimson or mixed. Pkt. 5c.
Sensation Dazzler. A 1943 All-America winner. Large 3 to 5-inch blooms on long stems. Flowers a very rich shade of deep velvety crimson maroon. Fine for cutting. Plants 3 to 4 ft. Pkt. 10c.



Cosmos Sensation

ing crested and fluted type flowers. Pkt. 15c.

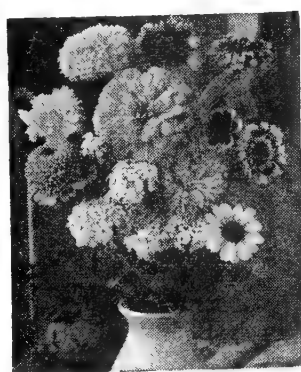
Orange Flare. The long stemmed flowers of bright vivid orange are freely borne on 2 to 3-foot well-shaped plants. If started indoors plants will flower in 60 to 70 days after setting out. Pkt. 5c.

Orange Ruffles (semi-double). Vivid rich orange butterfly-like blooms, very free flowering. Pkt. 5c.

Yellow Flare. A 1942 All-America Winner. Similar to Orange Flare except color, which is a rich golden yellow. Free flowering, long stems. Pkt. 5c.

Cosmos Extra Early Double Crested

Grow to a height of about three feet, bearing beautiful flowers on long stems. They bloom in seventy days from seed when sown in the garden, and will continue until frost. Crimson, pink, white or mixed. Pkt. 10c.



Cut-Flower Mixture

Annuals in a good variety of color, that will produce beautiful cut flowers from early summer until late in the fall. Pkt. 5c.

Cuphea Firefly

A dwarf, compact plant, about 10 inches high recommending itself for rockery, window boxes, flower pots, border or edging. The delicately formed flowers of fiery cerise red color are freely produced, from mid-summer on. A tender annual. Start indoors for early blooms. Pkt. 10c.

Cynoglossum (Chinese Forget-me-not)

An annual of easiest culture forming strong plants about 18 inches high, producing sprays of flowers delicately scented through the summer. **Amabile.** Blue. Pkt. 5c.

Cynoglossum. Firmament. A new dwarf type of Chinese Forget-me-not of rich blue color, 15 to 18 inches high and bushy. Easy to grow. Pkt. 5c.

Cypress Vine

A popular annual climber. It has a delicate fern-like foliage and produces a mass of beautiful star-shaped flowers. Grows 10 to 15 feet a season. White and scarlet, mixed. Pkt. 10c.

Dahlia Seed

Wonderful blooms are obtained the first season if seeds are started indoors and transplanted out about May 15th to 20th. Some of the seeds may come up in a few days, while others may not for months. As seedlings make about two leaves, transplant into a three-inch pot or small container until danger of frost is over when they can be set out in the open. Height, 18 to 36 inches.

Single or double mixed. Pkt. 10c.

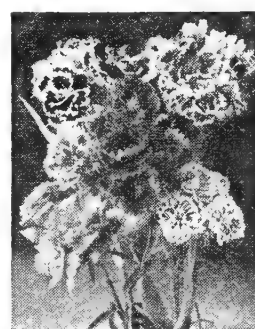
Unwins Dwarf Giant Flowered, mixed. Pkt. 10c.

Coltness Hybrids, very dwarf, for bedding. Pkt. 10c.



Unwins Dahlias

Dianthus or Pinks



Dianthus Chinensis

One of the most popular flowers. The double varieties are nearly as nice as Carnations for cutting. The annual varieties may be sown in the open when danger from frost is past and will bloom from early summer until frost. 12 to 15 inches high.

Chinensis (China Pinks). Large, double flowers in mixed colors. Pkt. 5c.

Heddewigi (Pinks). Large single flowers. Mixed colors. Pkt. 5c.

Heddewigi. Large double flowers, mixed colors. Pkt. 5c.

Plumarius (Grass or Clove Pinks). Double, semi-hardy. Mixed. Pkt. 10c.

Plumarius. Single mixed. Pkt. 10c.

Double Annuals. Mixed colors. Pkt. 5c.

Single Annuals. Mixed colors. Pkt. 5c.

Hardy Garden Pinks. Will come up year after year if winters are not too severe. Mixed colors. Pkt. 10c.

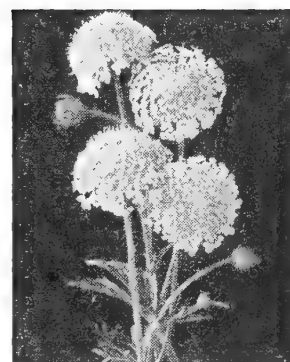
Dianthus, Rock Garden Pinks

Suitable for rockery or any other hot, dry spot. Of easy culture. Will thrive in any well-drained sunny location.

Deltoides (Maiden Pink). A beautiful little plant, bearing a profusion of small crimson flowers during June and July. 6 inches high. Pkt. 10c.

Caesius (Cheddar Pink). Very compact in growth, rose colored fragrant flowers in May. 6 inches high. Pkt. 10c.

Westwood Beauty. A 1946 All-America winner. Color ranges from fiery red to deep velvety red, some lighter. Grows 10 to 15 in. high. Pkt. 15c.



Didiscus Coeruleus

Didiscus Coeruleus (Blue Lace Flower)

Attractive light blue or lavender flower produced on long stems. Very fine for cut flowers, and a continuous bloomer. A lovely plant, 24 to 30 in. high. Pkt. 5c.

Dimorphotheca (African Daisy)

A rare and extremely showy annual Daisy. The plants grow about 15 inches high producing an abundance of daisy-like flowers, the greater part of the summer and fall.

Aurantiaca (Orange). Blossoms a unique rich orange gold. Pkt. 5c.

Semi-Double Hybrids Mixed. These crested hybrids in colors of deep salmon-orange to white with many yellow and cream shades, bloom freely all summer right through the hottest period. Pkt. 25c.

Aurantiaca Mixed. They vary in color from white to red, and various tints of yellow, orange and salmon. Pkt. 5c.

Salmon Beauty. Soft salmon pink. Pkt. 5c.

Ecklonis. Pure white, deep blue disc, reverse side lavender. Pkt. 10c.



Dimorphotheca Aurantiaca

Dolichos (Hyacinth Bean)

A rapid growing and free blooming annual climber. Very ornamental for covering trellises, arbors and porches. Makes a very beautiful combination when interplanted with scarlet runner beans, giving a variety of color. Sow in the open after danger of frost or sow early indoors and transplant outside later. Grows about 10 feet a season. Mixed colors. Pkt. 5c.

Echinocystis—See Wild Cucumber Vine

Eschscholtzia—See California Poppy

Everlastings

A get-acquainted collection of selected everlasting flowers. 1 to 4 feet tall. Mixed. Pkt. 5c.

Four O'Clocks (Marvel of Peru)

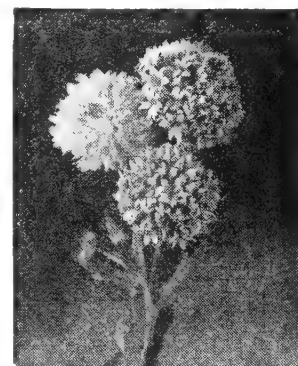
A popular old garden favorite, growing to a height of about 2 feet. Forms small tree-like bushes about 1½ feet through, which are covered with Morning Glory-like flowers of white, yellow, pink, orange and red, from July to October. Flowers open about 4 o'clock in the afternoon, remaining open until about noon of the next day. Make an attractive hedge plant. Tall mixed. Pkt. 5c.

Gaillardia

(Blanket Flower)

Very beautiful plant and remarkable for the profusion, size and brilliancy of its flowers, blooming from early summer until frost. Fine for cut flowers. 12 to 18 in. high. Single or double mixed. Pkt. 5c.

Indian Chief. Single, bronzy red. Pkt. 5c.



Gaillardia Double

FLOWERING PLANTS

During May and June we offer seedling flowering plants in the most popular varieties. Weather conditions determine just how early plants are ready, but the plant season usually begins the forepart of May and extends well into June.

Geranium

Seed may be started indoors early in the year and will produce blooming plants the same summer. Choice varieties. Mixed. Pkt. 15c.

Gilia

These delightful flowers are rapid growers and fine for cut flowers.

Capitata (Queen Anne's Thimbles). Charming and attractive bushy plants of erect habit and fine feathery foliage, blooming all summer. May be dried and used as an everlasting. Lavender. 1½ to 2½ feet tall. Pkt. 5c.

Micrantha Fairy Stars. Tiny daisy-like flowers in rose, pink, orange, yellow, cerise and cream. Plants, 6 to 8 inches high. Mixed colors. Pkt. 5c.

Globe Amaranth (Gomphrena)

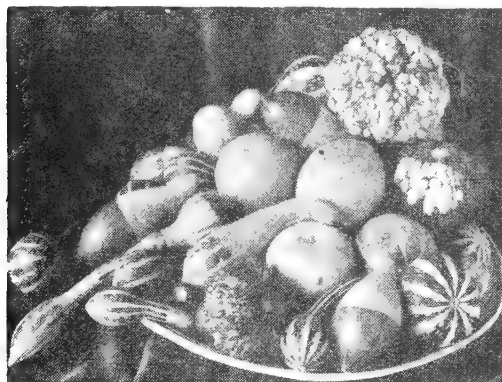
An attractive everlasting that produces an abundance of clover-like blossoms in many attractive colors. Flowers can be dried and used for winter bouquets. 15 to 18 inches high. Mixed. Pkt. 5c.

Godetia

An attractive annual which does best in poor soil and partly shaded. The flowers are of satiny texture in many colors, blooms resembling single Hollyhocks, flowering from June to October.

Tall, 18 to 24 in. Mixed colors. Pkt. 5c. Dwarf, 10 in. Mixed colors. Pkt. 5c.

Sybil Sherwood. A gorgeous salmon pink, softened by an edging of white. 20 inches high. Pkt. 5c.



Ornamental Gourds

Gourds (Ornamental)

Can be easily grown in any garden soil. Gourds mature and ripen better if trained over fences or trellis. Sow seed in hills 3 feet apart and allow 3 plants to grow in each hill. Watering during flowering period will cause dropping of flowers and buds, and consequent loss of Gourds. Do not harvest Gourds until stem becomes brown and pressure with the fingernail cannot dent the shell of the Gourd. After picking, Gourds should be hung in any airy, dry place until thoroughly cured.

Small Gourds	Large Gourds
Miniature Bottle	Bottle
Flat Striped	Cavemans Club
Spoon	Dipper
Warted, all shapes	Mixed
Mixed	Large and Small
	Mixed

Any packet of above 5c each.

INDOOR GARDENER, by Daisy T. Abbott. This book tells all you need to know for potting, repotting, watering, feeding and propagating plants indoors. 96 illus. \$1.50.

Gypsophila (Baby's Breath)

Flowers a few weeks after sowing. Its graceful panicles of dainty blossoms and feathery foliage are unequalled for making up bouquets. Sow at intervals during the summer for continuous blooming. 18 to 24 inches high. White, Pink, Carmine. Mixed. Pkt. 5c. White, ½ oz. 20c; 1 oz. 30c.

Helianthus (Sunflower)

Hardy annuals of sturdy growth, remarkable for the size and brilliancy of the flowers which are very useful for cut flowers. Effective in forming background of large beds or borders and for distant effect.

Sun Gold. Double, large flowers, brilliant golden yellow. 4-5 feet. Pkt. 5c.

Dwarf Maroon Prince. 4 feet. Single, best red. Pkt. 5c.

Miniature. 5 feet. Golden yellow, small flowers. Pkt. 5c.

Stella. 5 feet, large flowered. Pkt. 5c.

Helichrysum (Straw Flower)

Pretty Everlasting flowers in beautiful colors, many soft and artistic shades. Splendid for winter bouquets. To preserve them, cut the flowers before they are fully expanded and hang heads down in a dry place. Grow 15 to 24 inches high. Mixed colors. Pkt. 5c.



Helichrysum

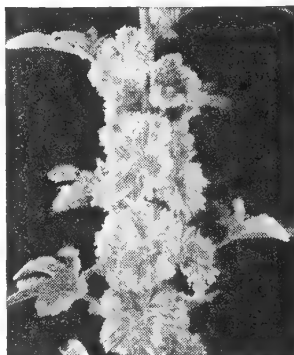
Heliotropium (Heliotrope)

A splendid bedding plant about 18 inches high. Its delightful perfume makes it most desirable for bouquets. Start indoors or plant seed in open in May. Makes a fine house plant for winter. Colors, various shades of lavender. Pkt. 15c.

Heterophyllia (Mex. Fire Plant)

Annual Poinsettia resembling in habit and color the hothouse Poinsettia. About mid-summer the center top leaves of each branch turn orange scarlet, presenting a striking appearance. Is of branching bush-like form. 2 to 3 feet high. Pkt. 5c.

Hollyhocks (Annual)



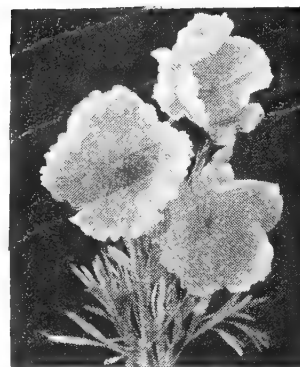
Hollyhock, Indian Spring

Blooms in five months from seed, with secondary blooms developing in side shoots after main flowering stem is cut away, the same season. It has semi-double to double fringed flowers in shades of pink on 4 to 5-foot plants. Pkt. 5c.

A comparatively new class of Hollyhocks. Blooms the first year from seed, when sown in April or May. The soil should be very rich, deeply dug, and during dry weather watered liberally. Height 4 to 5 feet. Semi-double or single, mixed. Pkt. 5c.

Indian Spring

Hunnemannia



Hunnemannia Sunlite

Sunlite. A semi-double poppy of bright canary yellow, on a bush of light gray green. Plants 2 feet. Pkt. 5c.

Giant Yellow Tulip Poppy or Bush Eschscholtzia. The best of the poppy family for cut flowers, remaining in a fresh condition for several days. Produces an abundance of brilliant yellow tulip-shaped flowers from July until frost. 15 to 20 inches high. Pkt. 5c.

Ipomoea

(Morning Glory)



Ipomoea

Plant in a dry, sandy location and never apply fertilizer. Do not sow outdoors until ground is thoroughly warmed.

Heavenly Blue Improved. Similar to the old Heavenly Blue, but easier to grow and vines do not make such rank growth. Flowers

much earlier and remain open until late in the afternoon. Color is a deep intense blue, shading lighter toward center. Pkt. 10c; ½ oz. 20c; ¼ oz. 30c.

Pearly Gates. 1942 All-America. White in color, with a creamy shading in the throat. Pkt. 15c.

Scarlett O'Hara. Flowers are a rich wine red, blooming 65 days after seed is sown. Flowers are not as large as Heavenly Blue. Pkt. 10c.

Patriotic Morning Glory Special

One packet of each: Cornell, red; Pearly Gates, white; and Heavenly Blue. Regular 35c for 25c.

Clark's Earliest Heavenly Blue Morning Glory. Flower sky blue, shading golden yellow in throat. Bloom early. Pkt. 10c, ½ oz. 20c; ¼ oz. 30c.

Cornell. Large flowered intense carnelian red with pure white border. Rapid grower, flowers early when vines are 2 feet tall and until frost. Pkt. 10c.

Alamo or Mile-a-Minute Vine. Foliage is fine and dainty and delicate in appearance; a quick grower, creamy white flowers with red center. Pkt. 10c.

Double Rose Marie. Flowers are a beautiful deep rose of double and semi-double form. A novelty. Pkt. 10c.

Imperial Morning Glory. The flowers are of gigantic size, and the colorings range from snow-white to purple with all the intermediate shades. Pkt. 5c.

Noctiflora (Moonflower). Covered with large white flowers every evening and cloudy days. Seed should be started in March or April indoors. Pkt. 5c.

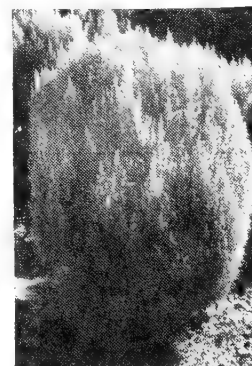
Tall Mixed Morning Glory. The flowers are very beautiful. Pkt. 5c.

Kochia

(Summer Cypress or Mex. Fire Bush)

Sow thinly in spring. Soon forms a cypress-like hedge of lively green and of perfect symmetry, 2 to 3 feet high. The color of entire plant changes to a deep red in autumn. Pkt. 5c.

Lace Flower
(See Didiscus)



Kochia

Lantana

A tender perennial plant with Verbena-like fragrant flowers in shades of white, red, orange and yellow. Grow in pots and set out in summer. Blooms until late in the fall, 15 to 20 inches high. Dwarf Hybrids, mixed colors. Pkt. 10c. Hybrids, mixed. Pkt. 10c.



Lavatera

(Annual Mallow)

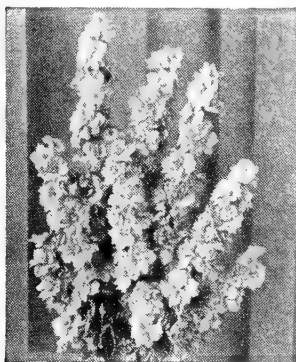
Marigold Ferdinand

Showy plants, 2½ feet in height, producing large cup-shaped flowers from mid-summer until frost. Mixed colors. Pkt. 5c.

Larkspur

These annual Larkspur are among our showiest garden flowers. The flower spikes of various shades are among our finest for cut flowers. Spring-sown seed will produce flowers from July until frost. Larkspur thrive best in a sunny situation. Height, 3 feet.

Giant Imperial. Azure Blue, Carmine Rose, Dark Blue, Deep Rose on Salmon, Lilac, Rose Pink, Salmon Rose, Soft Pink, Shaded Salmon, Scarlet, White. Each Above or Mixed Colors. Pkt. 5c.



Larkspur
Giant Imperial

Lilac King or Pink King. Pkt. 5c.

Rosamond (Double Stock Flowered). A pure bright rose, holding the color until out of flower. Pkt. 5c.

Super Majestic Rose Pink. Tremendous vigor and height of 5 foot blooms distinguish this new Larkspur. Has double rose pink flowers. Pkt. 5c.

Leptosyne

A golden yellow daisy, blooming six weeks from date of sowing. Excellent for cutting. 12 in. Stillmani. Pkt. 5c.

Linaria (Miniature Snaps)

The free flowering plants are very compact, about 8 inches in height, covered with a mass of dainty Snapdragon-like flowers in pastel shades. **Fairy Bouquet.** Pkt. 5c.

Linum (Crimson Flax)

One of the most effective and showy bedding plants, growing to a height of 18 to 24 inches. Flowers are a brilliant scarlet. Bloom from May until October by successive sowing. Pkt. 5c.

Lobelia

Charming little ball-shaped plants covered with a profusion of deep blue flowers. Makes an excellent plant for use in edging or bedding.

Crystal Palace Compacta. Fine for pot culture. 4 in. high. Pkt. 10c.

Mrs. Clibran. Deep blue, white eye. Pkt. 10c.

Hybrida Pendula Sapphire, trailing, deep blue, white eye. Pkt. 10c.

Lupinus (Lupine)

These garden favorites are among the most beautiful and few annuals give such a glorious display in the garden as do Lupinus. The long and graceful spikes of pea-shaped flowers make fine cut flowers. The glossy foliage makes a most charming background for the flower spikes. Blooms during July and August. Plant in partly shaded place. Height about 2 feet.

Hartwegi. Mixed colors. Pkt. 5c.

Marigold Tall Varieties

These old garden favorites are of easiest culture. The French and Dwarf grow 12 to 18 inches high, while the African and other tall varieties grow 2 to 4 feet.

Real Gold. 1945 All-America Silver Medal Award. Largest of all Carnation-flowered marigolds, with giant exhibition blooms 4½ in. and more across, very deep, very double golden-orange illumined with yellow. Plants grow 20 to 25 in. tall—ideal for beds and borders. (See back cover.) Pkt. 15c.

Flash. 1945 Silver Medal All-America Winner. Earliest of all marigolds. The bright flowers, ranging in color from vivid red through bronze with few yellows, are produced in ten weeks from seed and plants bloom profusely till frost. In cool weather the velvety-red predominates, while in hot weather the tangerine shades prevail—always a wonderful display. Pkt. 10c.

Mammoth Mum. The rich lemon-yellow 4 to 5 inch flowers resemble the large double chrysanthemums we admire so much in the fall. Bloom from August until freezing weather sets in. Pkt. 10c.

Burpee Gold. Carnation-like flowers 3½ to 4 in. across, of bright orange color. Petals loosely arranged. Plants grow 2½ ft. tall; foliage odorless. Pkt. 5c.

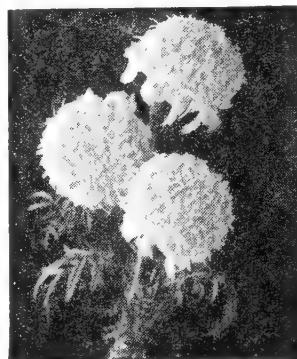
Limelight. Chrysanthemum flowered. Color pale primrose yellow or deep cream. Flowers bloom early, 1½ to 2½ inches across, abundant for 8 to 9 weeks. Pkt. 5c.

Ferdinand. Is one of the gayest of our new flowers. The single blooms have a crested center of golden yellow surrounded by a single row of mahogany-red petals. Blooms are about 1½ inches wide, plants 20 inches tall, upright and semi-compact. Does not have the strong marigold odor. Pkt. 5c.

Mission Giant Goldsmith. The golden orange flowers of the chrysanthemum type are base branching with good stems for cutting. Blooms are double, early and free-blooming on strong bushy plants, 2 to 4 feet high. Pkt. 10c.

Mission Giant Yellowstone. Bright rich clear yellow counterpart to Goldsmith. Blooms radiate an unbelievable brightness. Pkt. 10c.

Gigantea Sunset Giants. Foliage and flowers have a definitely sweet fragrance. Flowers will average 5 inches, plants usually from 3½ to 4 feet high. Colors range from orange, yellow and primrose. Mixed. Pkt. 5c.

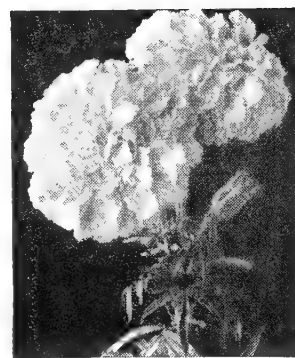


Marigold Crown of Gold

Collarette Crown of Gold. Outstanding flower. Odorless foliage and no B. O. Fragrant flowers of orange, bloom early. Plant in full bloom has the appearance of solid orange on top with green base. Plants grow 2 ft. tall. Pkt. 5c.

Yellow Supreme. A companion to the popular Guinea Gold. Flowers are a creamy lemon-yellow and somewhat larger than Guinea Gold; plants 2 to 2½ feet. Pkt. 5c.

African (Tall). Plants grow 2½ feet high and produce an abundance of large double flowers in great profusion of glowing colors from mid-summer on. Do best in a sunny situation. Orange, Lemon, or Mixed. Pkt. 5c.

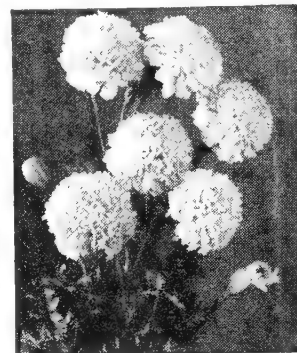


Marigold Guinea Gold

Guinea Gold. A carnation flowered type of marigold that produces nearly 100 per cent semi-double flowers. Plant grows 2 to 2½ feet high on which are produced 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange, flushed with gold. Practically odorless. Pkt. 5c.

Marigold Dwarf Varieties

Sunkist. Received second highest award in the 1943 All-America flower winners. Is an orange sport from Butterball. Dwarf plants, 6 to 10 inches high, compact, very early, continuous bloomer. For bedding, edging, pots. Pkt. 10c.



Marigold, Dwarf Butterball

Dwarf French Double Butterbell. Attractive, very compact, scabious flowering, canary yellow, only 6 to 10 in. tall. Very early and continuous bloomer. Pkt. 5c.

Dwarf Royal Scot. All Double. Of dwarf French type, 12 to 15 in. tall, large and rather flat flowers, brown and gold irregularly

striped. Plants of uniform height and long blooming. Pkt. 5c.

Naughty Marietta. A dwarf single French Marigold plant about 12 in. tall and 16 in. wide, completely covered with 2 to 2½ in. golden yellow flowers marked with mahogany at base. A 1947 All-America. (See back cover.) Pkt. 25c.

French Marigold. Compact plants 10 to 15 inches high, very attractive, covered with hundreds of small bright flowers of various colors. Few annuals are as effective or flower so long. Double or single mixed. Pkt. 5c.

Dwarf French Double Melody. Grows 12 to 15 in. high and literally covered with golden yellow Harmony type flowers. Pkt. 5c.

Spry. Extra dwarf, double French type; compact and uniform, fine for edging. About 9 in. tall, early blooming, with light orange crested center and maroon outer petals. Flowers freely. Pkt. 5c.

Scarlet Glow. Flowers are a dwarf double, of a bronzy red color, nearly 2 in. across. Plants compact and about 12 in. tall. Pkt. 5c.

Yellow Pygmy. Compact and ball-shaped plant, 8 in. tall, freely producing small 1 in. double French Lilliput flowers of light lemon-yellow. Pkt. 5c.

Dwarf French Double Harmony. A charming plant. The scabiosa-like formation with tubular deep orange center petals is flanked by broad velvety dark maroon-brown outer petals. Plant about 12 inches high. Pkt. 5c.

Monarch Strain. (Dwarf French Double.) Of compact growth, flowers in combinations of orange, bronze, yellow and mahogany. Pkt. 5c.

Legion of Honor. A single flowering marigold, compact bushes 9 inches high. Flowers golden yellow, with maroon at base of each petal. Blooms from June until frost. 10 in. Pkt. 5c.

Robert Beist. Attractive dwarf, double mahogany-red flowers. Plant grows about 12 inches high. Pkt. 5c.

Everlasting or Straw Flowers

Acroclium. Honesty.
Chinese Lantern. Physalis.
Globe Amaranth. Statice.
Helichrysum. Xeranthemum.

Marvel of Peru—See Four O'Clocks Matricaria

The plant is thick with numerous and freely branching flower stems, which are literally covered with very double flowers, resembling a button Chrysanthemum.

Capensis (Feverfew). Small, double white flowers grown on plants 2 feet tall. Fine for cutting. Pkt. 5c.

Matthiola Bicornis (Evening Scented Stock)

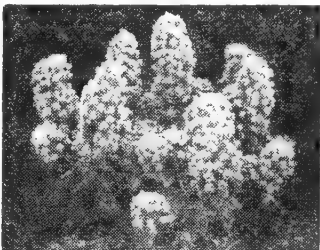
An old-fashioned little annual, with a delightful perfume which its purplish lilac flowers give out in the evening. Grows 12 inches high. Pkt. 5c.

Mignonette Reseda

A well-known fragrant plant. Can also be grown indoors, in pots for winter use. Sowings made in April and again in July will keep up a succession of bloom from early summer until frost. Grows 10 to 16 inches high.

Sweet Scented. The old-fashioned variety with small spikes, but the most sweetly scented of all. Pkt. 5c.

Special Mixture Large Flowering. Pkt. 5c.



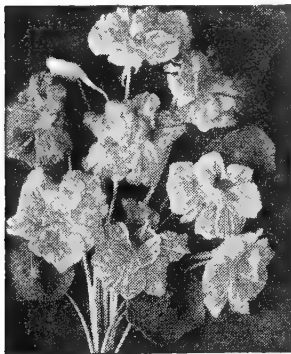
Mignonette

Mimulus

Moschatus (Musk Plant). Trailing plant for damp shady places. Fine for rockery. Small yellow flowers. 6 inches. Pkt. 10c.

Tigrinus (Monkey Flower). Dwarf bushy plants 1 foot high with large Gloxinia-like flowers of white, yellow, gold, pink, red and maroon. Does best in partial shade. 12 inches. Pkt. 10c.

Nasturtiums



Nasturtiums Gleam Hybrids. Pkt. 10c; oz. 20c.

The maximum of bloom is produced in dry gravelly or sandy soil. Water freely until plants are established. It is best to pick the blossoms almost daily. Dwarf varieties grow to a height of 12 to 15 inches; the tall, or climbing 6 to 10 ft.

Reliable Dwarf mixed varieties.

Lobb's Climbing, mixed colors. Pkt. 10c; oz. 20c.

Reliable Tall mixed varieties. Pkt. 10c; oz. 20c.

Semi-Double, Sweet Scented

Semi-double Dwarf. Sweet scented. Plants are dwarf and compact without runners. Fine for borders and edging. Mahogany, Fiery scarlet, Golden yellow and finest mixed. Pkt. 10c; oz. 25c.

Orange Gleam. Flowers are very large, uniformly semi-double and profusely free flowering, while the color is a deep glowing golden orange with a deeper shading at the center. Plants are semi-dwarf, bearing the flowers well above the light green foliage on long wiry stems. Pkt. 10c; oz. 25c.

Golden Gleam. The large, golden-yellow flowers average two and one-half to three inches across. They are borne on erect stiff stems six inches in length. Pkt. 10c; oz. 25c.

Mahogany Gleam. Dark mahogany red. Pkt. 10c; oz. 25c.

Salmon Gleam. Blooms delicate golden salmon. Pkt. 10c; oz. 25c.

Scarlet Gleam. The flowers are a fiery orange scarlet, blooms almost 3 inches across, very fragrant. Pkt. 10c; oz. 25c.

Gleam Hybrids. Are a collection of gorgeously colored, large double flowers of dazzling beauty in colors of salmon, golden yellow, orange scarlet, cerise, cream yellow, orange crimson, and gold flushed scarlet. Pkt. 10c; oz. 25c.

Fragrant Flowers

Alyssum.	Scabiosa.
Candytuft.	Stocks.
Carnation.	Sweet Peas.
Dianthus.	Sweet Sultan.
Heliotrope.	Sweet William.
Matthiola.	Valeriana.
Mignonette.	Violet.
Nasturtium.	Wallflower.
Nicotiana.	

Nemesia

These bushy plants grow only 6 to 8 inches high but bear continuously, brilliantly colored flowers of red, orange, crimson, cream, scarlet and rose lipped with other colors. Does best in cool situation and partial shade.

Compacta. Mixed colors. Pkt. 10c.

Nemophila (Baby Blue Eyes)

A splendid annual 6 to 12 inches high of easy culture. Flowers all summer if planted in cool, shaded locations. **Insignis Blue.** 6 in. Pkt. 5c.

Nicotiana (Tuberose Flowered Tobacco)

Delightfully sweet - scented, tubular flowers, blooming continually from July to October. Grows 2 to 3 feet high. Do well in partly shaded places. **Affinis.** Crimson, white or mixed colors. Pkt. 5c.

Nierembergia

A most charming plant, 5 to 6 inches tall, with lovely lavender blue flowers, heightened by a touch of yellow in the center. Blooms 15 weeks from seeding, until heavy frost. Likes full sun. Extremely beautiful in the rockery, window box, flower pot or border. Has a spread of 8 to 10 inches. A half hardy perennial. **Hippomanica.** Pkt. 15c.

Purple Robe. Received the 1942 All-America Bronze Medal Award. Flowers are several shades deeper blue or violet blue in color than the Nierembergia Hippomanica. About 6 in. tall. Pkt. 25c.

Nigella (Love-in-a-Mist)

A compact free-flowering plant of feathery foliage, with curious looking flowers and seed pods of easy culture, growing well in any garden soil. It is a hardy annual, about 15 to 20 inches high. Flowers are light blue or white. Blooms all summer. **Mixed.** Pkt. 5c.



Oenothera

Oenothera

(Evening Primrose)

Plant 1 to 2 feet high. Produce continuously large single Poppy-like flowers of rose, yellow, white, etc. Blossoms open towards evening and last well into the next day. Likes a sunny location.

Lamarckiana. Yellow, large flowered, very showy. 1 to 2 ft. Blooms June to August. Pkt. 5c.

Pansies

Plant in a shady situation and give plenty of moisture and fertilizer. Pick faded blooms so they do not go to seed. Plants about 6 inches high.



Pansy
Engelmann's
Giant

PANSY CULTURE. The seed may be sown indoors in February or March; or in spring in the open ground, in a shady, cool spot where the plant can be protected from the strong mid-day sun. Pansies should be classed more as a annual and seed sown every year.

Engelmann's Giant. This early flowering giant strain contains a great variety of both dark and light shades; all of the five blotched type. Pkt. 25c.

Swiss Giants. The flowers are very large, borne on long stems, from early spring until frost, in a great variety of colors. Try these wonderful Swiss Giant Pansies. Finest mixed. Pkt. 25c.

Maple Leaf Giants. Different from other pansy types. The leaves are of giant size and the flowers up to 4 inches across, in a wide range of colors. Mixed. Pkt. 25c.

Gould's Reliable Mixture. Flowers of large size, good form and substance and pleasing range of colors. Pkt. 15c.

Phacelia (California Blue Bell)

An attractive and easily grown annual about 8 inches high loosely branching with rich blue flowers. Blooms very early. Very effective for edgings, also a fine pot-plant. **Campanularia.** Pkt. 5c.

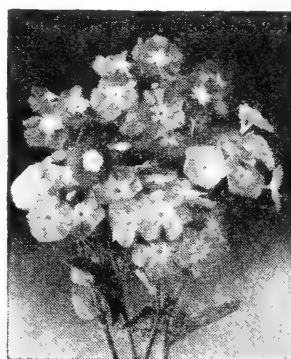
Phlox, Annual

Drummondii Gigantea. A strain of Phlox Drummondii with flowers an inch and a quarter to an inch and a half in diameter. The habit is erect and uniform, growing 9-12 inches high.

Gigantea Art Shades. Pkt. 15c.

Gigantea Red Glory. Pkt. 15c.

Gigantea Mixed. Pkt. 15c.



Phlox Drummondii

Phlox, Gigantea Rosy Morn. A single, annual phlox of brilliant rose with white eye. Extra large flowered, pleasing color combination and an early, free bloomer. 12 inches tall. Pkt. 15c.

Gigantea Salmon Glory. Has soft but rich salmon-pink florets with wide creamy-white eyes. Pkt. 15c.

Starred. Of dwarf habit with very pretty star-shaped flowers. Grows about 12 in. high. Choice mixed. Pkt. 15c.

Nana Compacta Dwarf. Fine for bedding or borders. The plants grow in neat little bushes, covered with flowers all summer and fall. Grows only 6 to 8 in. high. Mixed, all colors. Pkt. 15c.

Flowers for Shade or Semi-shade

Achillea.	Lupine.
Alyssum.	Matricaria.
Anchusa.	Myosotis.
Annual Phlox.	Nemesia.
Aquilegia.	Nicotiana.
Asters.	Oenothera.
Bellis Daisies.	Pansy.
Canterbury Bells.	Platycodon.
Centaurea.	Salvia.
Clarkia.	Schizanthus.
Coreopsis.	Snapdragon.
Delphinium.	Sweet Alyssum.
Digitalis.	Sweet Sultan.
Godetia.	Sweet William.
Heuchera.	Viola.
Lobelia.	

Petunias

The Petunia is peerless among annuals for effective summer bedding or window boxes. It is of easy culture. Blossoms early and continues until heavy frost.

Extra Selected Bedding Petunias

A strain of elegant, large flowers, noted for their brilliancy and variety of color.

Mrs. Dwight D. Eisenhower. Highest award in the 1947 All-America Winners. The lovely fully double, soft mid-salmon colored flowers are uniform and measure about 2 3/4 in. across. Fine for cut flowers. Plants are dwarf, bushy about 16 in. tall and 30 in. across. Pkt. (100 seeds) \$2.00.

Rose Marie. A 1947 All-America Selection. The dwarf, compact plants are heavy bloomers. The lovely rose-pink All Double flowers grow 3 in. and more across. Fine for cut flowers. Plants about 18 in. tall and 30 in. across. (See rear cover.) Pkt. (100 seeds) \$1.50.

Peach Red. Received honorable mention in the 1946 All-America flower selections. It has a unique color of rich salmon cerise. Plants make strong luxuriant growth to about 15 inches high. Flowers are produced freely through the entire season. (See rear cover for picture in color.) Pkt. 15c.

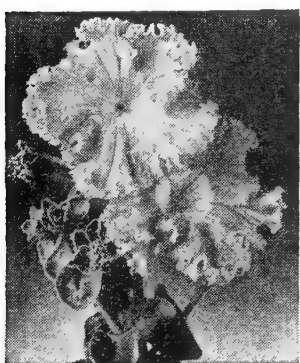
Bright Eyes. A 1946 All-America winner. A new dwarf, compact, bedding petunia of the Rosy Morn type. Plants about 10 inches high, covered the entire summer with rosy pink flowers, with white towards the throat, really a bi-color rose and white. Pkt. 15c.

Colossal Shades of Rose. Received the highest All-America award in the 1946 flower selections. The color ranges from light and salmon pink to mostly deep pinks and purplish rose. Plants of luxurious foliage grow about 18 inches tall. Flowers measure 4 to 5 inches across. Pkt. \$1.00.

Cheerful. A clear, light pink with a slight suffusion of salmon of compact growth and suitable for bedding, window boxes or pot culture. Plants grow about a foot high, being practically covered with large 2 1/2 inch flowers of good substance. Pkt. 15c.

All-Double America. Highest award in the 1943 All-America winners. A Hybrid Nana, carnation-flowered petunia of mauve pink color. Medium sized blooms borne in abundance from early summer to frosts. Very attractive for bedding and cutting. Pkt. 50c.

Igloo. Ranked third in the 1943 All-America flower awards. Plants uniform and compact, 12 to 15 inches tall. Has one and one-half inch, small creamy white flowers with yellowish throats in sheen of bloom. Excellent for bed or border. Pkt. 10c.



Petunia
Single Fringed

Single Fringed Dainty Lady. The first yellow Petunia has been granted Awards of Merit in both America and Europe. The flowers are of medium size and daintily fringed, delicate light yellow deepening to golden yellow at the throat. Plants are semi-dwarf, 12 in. high. Pkt. 50c.

English Violet. Free and continuous bloomer of 2 inch rosy mauve-violet flowers. Plants 12 to 15 inches. Pkt. 10c.

Petunia Burgundy (Grandiflora Single Plain Edged). A strong growing type with very showy flowers. 3 1/2 inches across, of rich wine red, contrasting with white throat. Plants about 12 in. tall. Pkt. 25c.

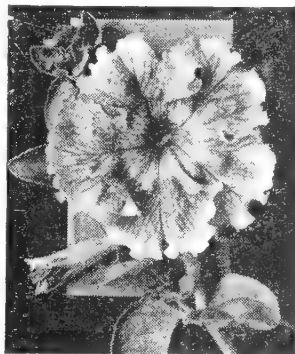


Petunia, Dwarf
Giants Ramona

Giants of California. Flowers are very large with edges fringed, petals fluted and crinkled which gives a most varying range of colors. Height 12 in. Mixed colors. Pkt. 25c.

Double Giants of California. A super strain of Giant Double ruffled and fringed Mixed Petunias. Pkt. 50c.

Giants of California Glamour. It has a large salmon-rose flower with brown veining on white in the throat; a free and continuous bloomer. Pkt. 25c.



Petunia
Giants of California

Elk's Pride. Dwarf plants, 12 inches high, with deep velvety purple flowers. Pkt. 50c.

Snowstorm. Glistening white shading yellow in throat. Dwarf, large flowers. Pkt. 50c.

White Cloud. Large flowering, plain edged, pure white, dwarf, compact. 12 inches tall. Pkt. 50c.

Dwarf Bedding Petunias

Very fine types of dwarf, erect growing Petunias suitable for massing, borders or window boxes. Plants 8 to 12 inches.

Blue. Mid-blue. Pkt. 10c.

Celestial Rose. Deep rose. Pkt. 10c.

Cream Star. Flowers are a soft, creamy white, bluntly star-shaped, and with a star of cream coloring on the white flowers. Pkt. 10c.

First Lady. Exceptionally uniform, dwarf, large flowers with a unique and distinct color of beautiful light or bluish pink in profusion, all season. Compact, 12-in. plants. Pkt. 15c.

Rose of Heaven. A select strain of the lovely and popular brilliant rose pink. A heavy bloomer. Pkt. 10c.

Rosy Morn. An improved selection of this clear pink with white throat. Very free bloomer. Pkt. 10c.

Snow Queen. Pure white. Pkt. 10c.

Twinkles. Brilliant rose, starred white. Pkt. 10c.

Velvet Ball. Flaming Velvet. Mahogany red flowers with a violet hue. Plants compact and a long season bloomer. Pkt. 25c.

Violacea. Deep velvety purple. Pkt. 10c.

BEAUTIFUL MINNESOTA CHRYSANTHEMUM PLANTS

During the month of May and June, we carry a large assortment of the famous Minnesota Mums. They have been developed by Dr. L. E. Longley at the Minnesota Agricultural College. These hardy perennial seedling plants will bloom the first year. It is best to cover with hay or straw for winter protection.

De Luxe Mixture of large flowering varieties. About 18 ins. Pkt. 10c.

Dwarf Giant. (Ramon strain.) Flowers beautifully ruffled and frilled. Height 10 ins. Mixed colors. Pkt. 25c.

Single Fringed. Ruffled edge. 14 inches. Mixed colors. Pkt. 35c.

Dwarf Rose Gem. It forms a compact plant 5 to 6 inches high and 8 inches wide literally covered with 25 to 30 deep rich rose flowers, at one time. Individual blooms are 2 inches in diameter. Splendid for bedding, rock gardens, borders and window boxes. Pkt. 10c.

Mixed Colors. Pkt. 10c.

Finest Mixture. New, well balanced color range. Pkt. 15c.

Hybrid Petunias

Plants are about 15 inches high, small flowered and extremely free blooming. Suitable for bedding, borders or window boxes.

Blue. Violet-blue. Pkt. 10c.

Flaming Velvet. Color a rich, deep, velvety crimson in the small flowering type. Outstanding for color, type and uniformity. A brilliant Petunia for bed or border. Height 15 in. Pkt. 10c.

Genl. Dodds. Blood-red. Pkt. 10c.

Howard's Star. Reddish-purple, white star. Pkt. 10c.

Radiance. A very brilliant and rich rose or cerise color with brown veined yellowish throat, blooming very early and profusely; of uniform height, branching nicely. Pkt. 10c.

Rose King Improved. Clear rich rose with a light golden throat. Pkt. 10c.

Topaz Rose. Fiery rose, suffused gold. throat topaz. Pkt. 10c.

Violacea. Deep violet. Pkt. 10c.

White King. Pure white. Pkt. 10c.

Mixed Colors. Pkt. 10c.

Balcony Petunias

A splendid single flowering type for window boxes, vases, hanging baskets, etc. The flowers bloom all summer long. Trail about 15 inches.

Black Prince. Deep velvety red. Pkt. 15c.

Deep Blue. Velvety violet blue. Pkt. 15c.

Red. A dark crimson. Pkt. 15c.

Rose. Select strain of fiery rose. Pkt. 15c.

White. One of the finest whites. Pkt. 15c.

Mixed Colors of the above. Pkt. 15c.

Poppies

Sow as early in the spring as possible, where the plants are to remain, as they will not bear transplanting. Be sure to thin out plants as they come up, to 4 to 6 inches apart. Sow at intervals to keep up a succession of bloom. As cut flowers they are short lived, but if their stems are dipped in boiling water for just one moment when cutting they last much longer.

Gould's Reliable Single Shirley. A charming strain of poppies, ranging from snow-white through all the delicate tints of pink, rose, carmine, crimson, blood-red and salmon. Height 30 inches. Mixed colors. Pkt. 5c.

Gould's Reliable Double Shirley. Flowers are double and semi-double. Have the same wide range of colors as the Single Shirley. Height 1 1/2 feet. Mixed colors. Pkt. 5c.



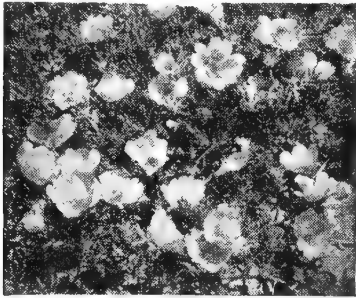
Poppy
Double Shirley

American Legion. Beautiful large single flowers of a bright orange-scarlet color. Plants grow about 2 1/2 feet high. Pkt. 5c.

Tulip Poppy (Glaucum). Large tulip shaped flowers of dazzling scarlet. Grow 20 inches high. Pkt. 5c.

Portulaca (Moss Rose)

A low growing annual with thick stems and foliage; bearing brilliant colored cup shaped flowers during the entire summer. This plant is suitable for rockeries and banks and will grow and bloom profusely in a dry hot situation where other plants would fail. Plants about 6 inches high.



Portulaca, Moss Rose
For Hot, Dry Places

Single Mixed colors. Pkt. 10c.

Double Mixed colors. Pkt. 10c.

Single and Double Mixed. Pkt. 10c.

Grandiflora, Double. Flowers are like little roses. Finest mixed. Pkt. 15c.

Grandiflora, Single, large flowers, mixed colors. Pkt. 15c.

Queen Anne's Lace Flower

An old favorite of our grandparents. Plants grow upright 2 to 2½ feet high, heavily branched, with white flowers spread out umbrella-like from each branch end. Easily grown and cut flowers last long in water. Pkt. 5c.

Flowering Plants

During the months of May and early June we offer daily many thousands of annual seedling flower plants, also potted perennial plants.

Ricinus (See Castor Bean)

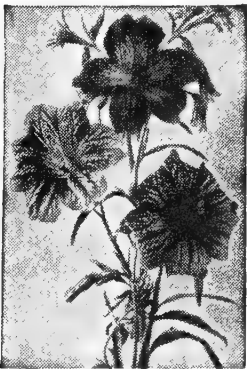
Rudbeckia (Cone Flower)

Attractive annual of compact growth. Excellent for cutting. Golden yellow flowers with brown markings, on long stems. Grows 2 to 3 feet high. Blooms June to August.

My Joy. Large, orange yellow, dark cone. 18 inches high. Pkt. 5c.

Starlight. The branching plants about 3 ft. tall. Flowers fully double to single, colors, primrose yellow to mahogany and bicolors with mahogany centers; on nice long stems. Pkt. 10c.

Salpiglossis (Painted Tongue)



Salpiglossis

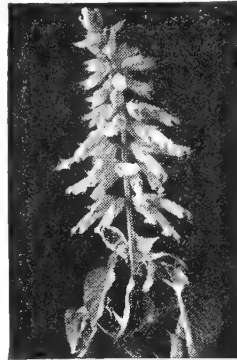
Tongue. Flowers large, fancifully veined in contrasting colors. Pkt. 5c.

Dwarf Large Flowering. A new type of Salpiglossis, about 8 inches shorter than the spreading types. Plants are bushy and compact and flowers surpass the taller varieties in size and color combinations.

Velvety Violet. **Bright Scarlet**
Blue and Silver. **Scarlet and Gold.**
Red Star Chamols. **Lilac, Red Throat**
Any of above, or mixed. Pkt. 10c.

Salvia (Scarlet Sage)

A standard bedding plant 12 to 24 inches tall, that keeps the garden bright with color until late in autumn. It is especially adapted for a border in front of tall shrubs or in back of dwarf growing plants. Salvia should be started indoors and transplanted to the garden after danger of frost is past.



Salvia Splendens

Splendens. Blooms from August until killed by frosts. The old favorite, producing scarlet flowers in summer and fall. Height about 2 ft. Pkt. 15c

America or Globe of Fire. Brilliant scarlet flowers, 16 in. high, fine for bedding. Uniform in habit and a continuous bloomer. Pkt. 15c.

Clara Bedman or Bonfire. Grows 2 ft. high. Scarlet-red flowers grow erect above the foliage, forming globular bushes. Pkt. 15c.

Zurich. 12 to 15 inch plants that bloom early. Scarlet-red flowers on dwarf, compact plants. Pkt. 15c.

Sanvitalia (Creeping Zinnia)

An annual of dwarf, compact growth; but spreads itself over the soil instead of growing upright. Useful for rockery, edging, beds, baskets or vase. Showy, bright yellow flowers bloom all summer. **Procumbens.** 6 ins. Pkt. 5c.

Scabiosa (Mourning Bride)

Commonly known as the Pincushion Plant, growing to a height of 20 to 30 inches. The flower stems are long and the blossoms keep well in water. When picked off regularly they will bloom all through the summer.

Large Tall Double. 2½ ft. high.
Azure Blue. **Reddish Black.**
Cherry Red. **Rose.**
Fiery Scarlet. **Rosy Lilac.**
Mid-blue. **Salmon Rose.**
Pure White. **Yellow.**

Any of above or Mixed Colors. Pkt. 5c.

Peace. The double white flowers are semi-tall and easier handled than the taller varieties. Flowers nearly 2 inches across on 6 to 8 in. stems. Pkt. 10c.

Heavenly Blue. A distinct and lovely azure-blue, very early and free flowering. Plants dwarf, about 18 inches, bushy, with short but wiry stemmed, high crowned flowers. Pkt. 5c.



Scabiosa
Tall Double

ture plants, 6 to 8 in. high. Pkt. 5c.

New Salmon Beauty. This new giant Scabiosa of pure salmon color is the result of 12 years of work. Pkt. 5c.

Rosette. A lovely new color. A beautiful shade of deep rose heavily suffused with salmon. An exquisite color for the garden and for cut flowers. Blooms are large on long, stiff stems. Pkt. 5c.

Blue Moon. Has no pincushion center but flowers are literally double, color a rich deep lavender blue on long stems. Plants about 42 to 48 in. tall. Pkt. 5c.

Blue Cockade. This long stemmed and free flowering Scabiosa is outstanding. The deep azure blue flowers are almost conical in shape. Pkt. 5c.
Giant Flowered Hybrids, Mixed. Large ball-shaped flowers, unusual colors. About 2½ feet tall. Pkt. 5c.
Tom Thumb Mixed. Miniature plants, 6 to 8 in. high. Pkt. 5c.

Rock Garden Mixture

This is a fine variety of annual flowering plants suitable for Rock Gardens. A select mixture. Pkt. 5c.

Schizanthus (Butterfly Flower)

A charming annual which yields an abundance of blooms on delicate fern-like stems from July to September. Very desirable for cut flowers and a nice house plant. Height 6 to 15 in.

Excelsior Compactus. Finest Mixed. Semi-dwarf, free flowering. 6 inches. Pkt. 10c.

Dr. Badgers Improved Giant Flowered Hybrids. A super strain of large flowers in a brilliant range of colors, from light pink to deep purple. The 12 to 15 inch plants have a fern-like foliage. Flowers measure about 1 inch across. Pkt. 10c.

House Plants from Seed

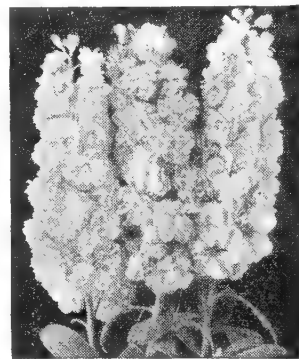
Agathe.	Mignonette.	Phacelia.
Carnation.	Mimosa.	Schizanthus.
Heliotrope.	Mimulus.	Stocks.
Lantana.	Nemesia.	Tagetes.
Marigold.	Passiflora.	Wallflower.

Snapdragons—See Antirrhinum

Statice (Everlasting)

A very charming flower in the garden which may be cut and dried for winter bouquets. 3 ft. Mixed colors. Pkt. 5c.

Stocks (Early Giant Imperial)



Stocks
Giant Imperial

er from July until October. Grow 20 to 30 inches tall. Mixed colors. Pkt. 10c.

Improved Bismarks. One of the most highly prized of our annuals. This select strain produces a high percentage of double flowers. Suitable for pots as well as the garden. The delightful fragrance, free blooming, long lasting character make them invaluable for cut flowers. Flower from July until October. Grow 20 to 30 inches tall. Mixed colors. Pkt. 10c.

Sweet Peas—See next page

Sweet William (Annual)

The plants are of the same type and habits as of the old perennial kinds, but this annual variety will bloom the first year from seed. The flowers are very similar to the older sorts, having a variety of colors and very fragrant. 15 to 20 inches. Mixed colors. Pkt. 5c.

Tagetes (Single Dwarf Marigolds)

Dwarf, compact, bushy annuals of the Marigold family, with beautiful fern-like leaves, densely covered with flowers of bright orange and golden yellow, which flower from June until frost. A fine plant for the border or rockery, also potting.

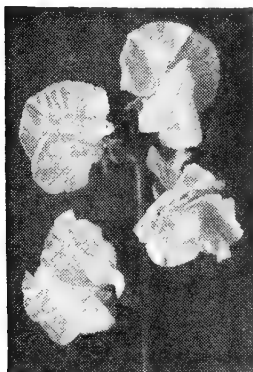


Tagetes Gnome

Signata Pumila. Bright orange flowers covering the small bushy plants all summer. A lovely plant, 10 in. Pkt. 5c.

Signata Pumila Little Giant. A new strain, very dwarf plants, only 4 to 6 inches high and a spread of 8 to 10 inches, with an abundance of dainty single golden orange flowers. Pkt. 5c.

Signata Pumila Gnome. The newest of the popular Tagetes family of Miniature Marigolds. Plants are only 6 in. high, covered with golden yellow flowers all summer. Pkt. 5c.



Sweet Peas

Sweet Peas

Sweet Peas are one of the most fascinating flowers of all garden annuals. The blooms, with their long wiry stems, delicate fragrance, and great variety of fascinating shades, have a grace and individuality for table decorations.

How to Grow Fine Sweet Peas

Sweet Peas are of comparatively easy culture, if their requirements are taken into consideration. We can all grow fine Sweet Peas with lovely long stems if we will observe a few simple rules in their culture.

- First—Good seed.
- Second—Rich soil, deeply dug.
- Third—Early sowing.
- Fourth—Early staking.
- Fifth—Frequent fertilization to insure healthy, rapid, continuous growth.
- Sixth—Keep soil loose and porous.

Fall preparation of ground is preferable but if this has not been done start as soon as the ground can be worked in the spring.

Select an open sunny spot in the richest part of the garden and then apply a thick layer of pulverized sheep manure 18 inches wide. Remember that Sweet Peas are deep rooting plants so that the soil must be deeply and thoroughly worked. Spade the sheep manure in as deep as the fork will go and turn the soil over three or four times so that the manure becomes thoroughly mixed with it, then level, and your bed is ready for planting. Sow in double rows, that is, open two drills about 8 to 10 inches apart and 4 to 5 inches deep and scatter the seed liberally, but not too thick (about one ounce to 15 running feet), then cover. The support for the plants to climb on is placed in the center of the two rows and should be in place by the time the plants are 2 inches high.

Success with Sweet Peas necessitates a rapid, healthy and vigorous growth during the cool weather of April and early May. An application of Vigoro about May 1 will help the plants to get their growth during this cooler weather.

Sweet Peas require sufficient plant food at all times, and you will find that a top dressing of sheep manure, Vigoro or bone meal applied regularly every two weeks and hoed in will help produce strong healthy vines.

Prices on Sweet Peas

All varieties except Spring Flowering: Pkt. 10c; 1 oz. 25c; 2 oz. 45c.

Blue

Amethyst. Bright, clear blue, large.
Flagship. Deep navy blue.
Glencagles. Light blue.
Ruffled Blue. Mid-blue.

Cerise

Grand Slam. Cerise scarlet.
Ruffled Exquisite. Salmon cerise.

Cream

Mastercream. Deep cream.
Ruffled Primrose. Deep cream.
What Joy. Deep rich cream.

Crimson-Scarlet

Derby Day. Sparkling crimson.
Huntsman. Bright scarlet.
Ruffled Crimson. Rich velvety crimson.
Welcome. Dazzling scarlet.

Lavender-Mauve

Austin Frederick Imp. Giant lavender.
Chieftain. Pure satiny mauve.
Ruffled Mauve. Pure mauve.
Powercourt. Fine lavender of mammoth size. A lovely variety.
Ruffled Orchid.

Maroon

Black Diamond. Rich chocolate maroon.
Warrior. Deep maroon.

Orange

Gold Crest. Orange tinted salmon.
Golden Wings. Fine orange, large.
Improved Tangerine. Color almost a tangerine orange tint.
Orange shades of Sweet Peas should be shaded from strong sunshine to retain their rich color.

Picotee

Gloria. Cream, picotee edged rose.
Youth. White, edged rose pink.

Pink-Rose

Aristocrat. Clear pink.
Fluffy Ruffles. Light cream-pink.
Miss California. Salmon cream-pink.
Pinkie. Large rose-pink.
Ruffled Carmine. Bright carmine rose.
Ruffled Rose. Soft rich rose.

Purple

Royal Purple. Very rich and warm purple; having a slightly softer color tone; early. Flowers are large.
Ruffled Purple. Rosy purple.

Salmon

Melody. Golden salmon pink.
Smiles. Salmon Shrimp pink.

White

Avalanche. Glistening white.
Burpee's Giant White. One of the most perfect white Sweet Peas produced.
Gigantic. Pure white.
King White. Noted for the glistening purity of the whiteness.
Ruffled White. Extremely ruffled.

Gould's Reliable Mixture Sweet Peas. Is composed of a special selection of varieties to produce a harmony of colors that is rarely offered in mixtures.
Ruffled Varieties only. Mixed colors. (Same price as regular.)

Sweet Pea, Spring Flowering, Rose-Pink. A new type maturing between the early or summer flowering classes. Prolongs the greenhouse season. Outdoors, they are free bloomers and more heat-resistant than other types of Sweet Peas. Flowers large, on long stems, wavy, rose-pink on white ground. Pkt. 10c.
Sweet Pea, Spring Flowering, Blue. Similar in type, growth and blooms to Rose-Pink, except in its marine blue color. Pkt. 10c.

Sweet Pea, Spring Flowering, Lavender. While not as popular a color as Rose-Pink and Blue, it will be welcomed to help fill the color range of these early, long-stemmed garden flowers. Pkt. 10c.

Sweet Pea, Spring Flowering, White. Pkt. 10c.

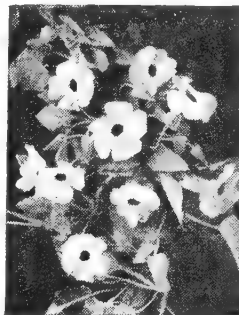
Spring Flowering. Mixed Colors. Pkt. 10c.



Inoculate seed with Nitragin. Makes finer, more vigorous and healthier Sweet Peas. Garden size, postpaid 12c.

Thunbergia (Black Eyed Susan)

A beautiful rapid-growing annual climber. Used extensively in hanging baskets, vases, etc., and to cover low fences. Can be used in the rockery as it will trail over the ground, forming a dense mat of foliage and trumpet shaped flowers. Colors range through all shades of yellow, orange, buff, to pure white with dark centers. Will grow 5 ft. Finest mixed. Pkt. 10c.



Thunbergia.

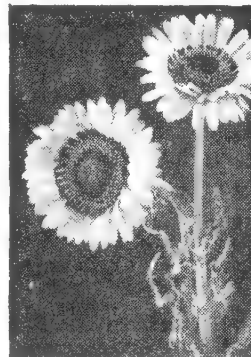
Tithonia (Mexican Sunflower)

An odd plant growing 5 to 7 feet high, that throws up from the root many stout, woody stalks like the Dahlia, with large foliage. The dazzling orange-scarlet flowers resemble the single Zinnia. **Speciosa.** Orange-vermillion. Pkt. 5c.

Torenia (Wishbone Flower)

Bushy plants 10 inches high covered with lovely, rich colored snapdragon-like flowers of sky blue with a touch of gold on the tip. Fine for beds, pots, or hanging baskets. **Fournieri.** Pkt. 15c.

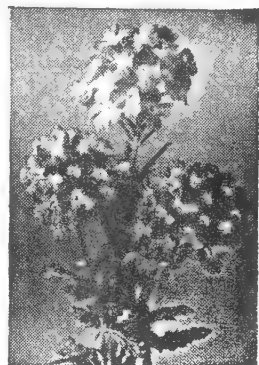
Venidium



Venidium Fastuosum

Produces long daisy-like flowers similar to the African Daisy of deep orange, apricot, cream, white, yellow or salmon colored flowers 4 to 5 inches across marked at center with a reddish-brown zone. Plants grow 2 to 3 feet. **Fastuosum.** Hybrids. Pkt. 10c.

Verbena



Verbena.

The Verbena is one of the most popular garden annuals. Verbenas are particularly fine for beds, borders, window boxes, or as an undergrowth to tall plants. The sweetly scented flowers are borne in large clusters and bloom profusely from mid-summer until late in autumn. Plants 12 inches high.

Hybrida Grandiflora.

Flame Pink. Scarlet.
Red, cream eye. Violet, white eye.
Rose pink, white eye. Crimson.
Dark Blue, cream eye. Blue, white eye.
White. Creamy white.
Mixed colors.

Each of above. Pkt. 10c.

Blue Sentinel. Plants compact 10 to 12 inches high, flowers a rich navy blue self color held erect above foliage. Fine for cutting and dark beds. Pkt. 10c.

Crimson Glow. Flowers are pure glowing crimson, wholly without even a small light eye. Pkt. 10c.

Beauty of Oxford Hybrids. Shades from rose pink to rose red. Pkt. 10c.

Lavender Glory. New, lavender medium creamy eye. Pkt. 10c.

Hybrida Compacta Erecta. A distinct new type of Verbena, very compact, dwarf. **Fireball.** Brilliant crimson. Pkt. 10c.

Erinoides (Moss Verbena). Produces a mass of moss-like foliage above which are borne heads of purplish-blue or white blossoms. Flowers from June until frost. 12 in. Pkt. 10c.

Venosa. This variety is largely used for bedding purposes. Strong thrifty grower and covered with bright purplish heliotrope flowers from early summer until late fall. 1 foot. Pkt. 10c.

Vinca Rosea (Periwinkle)

Ornamental free-blooming plants with light green shiny foliage, and handsome pink and white flowers. May be taken up in fall and potted and kept in bloom through the winter. Sow seed indoors early, or in the open when ground is warmed up. Grow 12 to 15 inches high. Mixed. Pkt. 10c.

FLOWERING PLANTS

During May and June we offer seedling flowering plants in the most popular varieties. Weather conditions determine just how early plants are ready, but the plant season usually begins the forepart of May and extends well into June. We also have Geraniums, Pansies, Cananans, Vinca Vines, Daisies in baskets and pots for the window box or garden, and perennial plants.



Zinnia, Fantasy

Violas (or Tufted Pansies)

Resembling miniature pansies or violets. Do well in sun or shade and flower from early summer until frost. Splendid for border or rockery. Height, about 6 inches.

Apricot. Beautiful rich apricot shade, center tinged orange. Pkt. 25c.



Violas.

Johnny-Jump-Up. Plants are easily raised from seed and come into bloom quickly. Their little pansy faces of purple, blue and yellow are delightful. Will reseed themselves. Pkt. 15c.

Papilio. Deep violet. Pkt. 15c.

White Perfection. One of the finest whites. Pkt. 15c.

Finest mixed. Pkt. 15c.

Viola Plants. As a rule we have viola plants in the spring, in various colors. None sent Parcel Post.

Virginia Stock

These fragrant little flowers are only 6 inches tall, but sown early, will give you a lot of color between the spring and summer flowers. Mixed. Pkt. 5c.

Wallflower (Goldlack)

Their adaptability for pot culture and outdoor bedding and the peculiar sweet fragrance of their flowers should win favor. Easily grown and last long as cut flowers. Bloom in July and August. Plants about 18 in. high. Single or double, mixed. Pkt. 5c.

Wild Cucumber Vine (Echinocystis)

The quickest climber known for covering verandas, houses, trellises and arbors. It will withstand the heat and drought and retain its fresh green color until frost. Has white, fragrant flowers. Height, 15 to 20 ft. Pkt. 5c.

Wild Garden Annual Flower Mixture

The easiest and surest growing annuals that will produce an abundance of flowers for cutting. Pkt. 5c; 1 oz. 25c; ¼ lb. 75c.

Xeranthemum

Another of the Everlastings. The flowers are small, but very double and come in shades of white, pink and purple with silvery foliage. Very desirable for drying and winter bouquets. Height, 18 to 24 inches. Pkt. 5c.

Zinnias

Zinnias are one of the most desirable and lovely flowers in the garden. The Zinnia is an old time garden flower and the new and improved types of Zinnias are deserving of more space and attention. Zinnias are not subject to any of the common diseases or insect pests which so often infest other flowers in the garden. They grow well in partial shade but like most flowers do best in a sunny location. The seed may be planted in the garden from April 15th to June 1st, and when the plants are two or three inches high they should be thinned out to twelve or fifteen inches apart. If earlier blooms are wanted the seed may be started indoors and transplanted to the open garden from May 15th to June 1st. Plants flower from early summer until frost.

FANTASY

Color of flowers ranges through shades of red, yellow and orange as well as the popular pastel pinks and cream. Plants 2½ to 3 feet. Mixed. Pkt. 10c.

Fantasy, White Light. About as pure white as a Zinnia comes. Pkt. 10c.

Fantasy, Wildfire. A rich dazzling scarlet. Pkt. 10c.

Fantasy, Star Dust. Flowers are a rich deep golden yellow. Pkt. 10c.

Fantasy, Rosalie. Intense rose. Pkt. 10c.

Tall, Large Flowered Zinnias

GIANT DAHLIA FLOWERED, 2½ TO 3 FEET

Canary Bird. Rich canary yellow.

Crimson Monarch. Largest of the red.

Dream. Deep rosy lavender.

El Dorado. Salmon apricot.

Exquisite. Light rose, center deep rose.

Golden Dawn. Golden yellow.

Golden State. Rich orange yellow.

Illumination. Deep rose, self color.

Luminosa. Bright deep pink.

Meteor. Rich deep red, very large.

Old Rose. Real old rose shade, large.

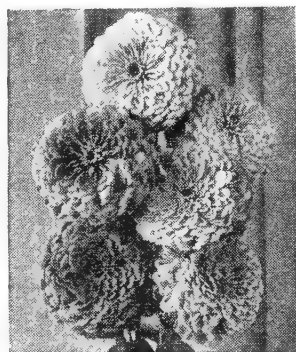
Oriole. Orange and gold bicolor.

Polar Bear. Very large, creamy white.

Purple Prince. Deep purple, large.

Scarlet Flame. Bright scarlet.

Each above or mixed colors. Pkt. 10c; 1/16 oz. 20c; ¼ oz. 30c; ½ oz. 45c.



Zinnia, Dahlia Flowered

Will Rogers Dahlia Flowered. Large flowers of glowing intense scarlet, attract and arrest attention anywhere. Pkt. 10c.

California Giant or Mammoth. 3 to 4 feet. Mixed colors. Pkt. 10c; 1/16 oz. 20c; ¼ oz. 30c; ½ oz. 45c.

Dahlia Flowered Royal Purple. The deep reddish purple tones of Royal Purple are a charming reminder of the soft velvet of regal robes. Pkt. 10c.

David Burpee. The flowers have curled and quilled petals, similar to chrysanthemums, up to 6 inches across and 4 to 5 inches deep. Colors run to pastel shades and blendings of 2 or 3 colors. Plants 3 feet. Pkt. 10c.

Howards Giant Crested. Striking new large flowered cutting Zinnia, produced by crossing Dahlia Flowered and Scabiosa types. Mixed colors. Pkt. 10c.

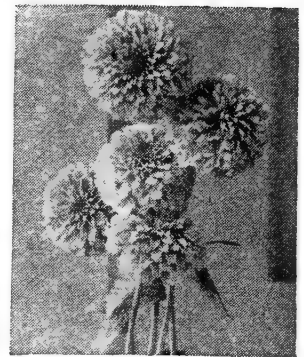
SCABIOUS FLOWERED MIXTURE

Plants 2 to 2½ feet high, flowers resemble Annual Scabiosa. Colors include crimson, scarlet, orange, yellow, pink and white. Mixed colors. Pkt. 10c.

GAILLARDIA FLOWERED

Navajo. Flowers are very attractive, about 2 inches in diameter. Plants about 2 feet tall. Colors: Rose pink, bronze, yellow, orange, lavender and combinations of these colors. Mixed. Pkt. 10c.

Super Crown O'Gold. Large, well-formed flowers, in soft pastel shades, each petal overlaid at the base with deep golden yellow. Pastel tints. Rich pastel mixture. Pkt. 10c.



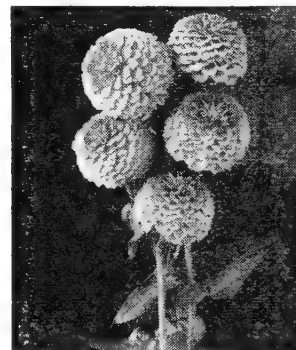
Gaillardia Flowered Zinnia

Dwarf, Small Flowered Zinnias

Zinnia, Black Ruby. Flowers a deep velvety maroon on long stems. Plants 18 inches tall of the Lilliput or Pompon type. Pkt. 10c.

Linearis. A dwarf, compact, early flowering Zinnia, only 8 to 10 inches high with a spread of as much as 2 feet. The single flowers are a deep golden orange with a delicate light yellow stripe with dark center. Pkt. 10c.

Lilliput Pastel Mixture. Dwarf compact plants, 12 to 15 inches in height. Mixture includes soft shades of apricot, peach, yellow, pink, salmon, rose and orchid. Mixed colors. Pkt. 10c.



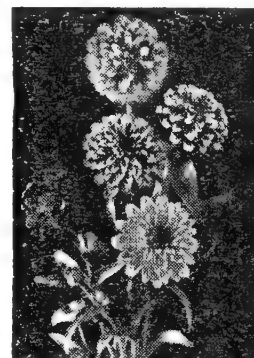
Zinnia, Lilliput

Rose, White, Scarlet, Burnt Orange, Lilac Purple or mixed. Pkt. 10c; 1/16 oz. 20c; ¼ oz. 30c; ½ oz. 45c.

Lilliput Dainty Gem. A new gay and fascinating bicolor button-like blossoms of bright rose pink at center and lighter pink at outside. Pkt. 10c.

Red Riding Hood. Grows but a foot high, of compact form and covered the entire season with double, intense scarlet flowers. Fine for border. Pkt. 10c.

Tom Thumb. Plants are only 4 to 6 inches high, compact, covered with red, orange, yellow, pink, rose and other pastel shades. Excellent pot plant. Mixed colors. Pkt. 10c.



Haageana Dwarf Zinnia.

or mixed colors. Pkt. 10c.

Haageana (Mexican Hybrids). These small double flowers are fine for bedding yet have stems long enough for bouquets. Mixed colors. Pkt. 10c.

Pumila Double (Cut and Come Again.) Plants are 12 to 18 inches high, flowers 2½ to 3 inches in diameter. Early, fine for cut flowers. Buttercup yellow, Canary yellow, salmon rose, scarlet, white, rose pink or mixed colors. Pkt. 10c.

PRICE LIST SUPPLEMENT TO CATALOG

Issued February 1, 1947

Prices Subject to Change Without Notice

SEED POTATOES

Prices Will Be Given Later

FERTILIZERS

FERTILIZER ANALYSIS: First number indicates Nitrogen;
2nd, Phosphoric Acid; 3rd, Potash.

	5	10	25	50	100	500	1
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	ton
Vigoro, Regular,							
4-12-4	\$0.45	\$0.85	\$1.50	\$2.50	\$4.00	\$20.00	\$80.00
Armour's Ornamental,							
10-8-6 .....	.50	.85	1.50	2.75	4.50	20.00	75.00
Armour's Spl. Grower							
Mix, 4-12-8 .....	.45	.75	1.25	2.00	3.50	16.00	60.00
Milorganite, 6-2-0...	.50	.85	1.35	2.25	3.60	17.25	55.00
Bone Meal, Special,							
2-26-0 .....	.75	1.25	2.00	3.50	6.50	30.00	100.00
Sulphate of Ammonia,							
Koppers .....	.60	1.00	1.50	2.75	5.00	20.00	75.00
Sulphate of Ammonia,							
Kiln Dried .....	.65	1.15	1.75	3.25	6.00	27.50	100.00
Sheep Manure .....	.45	.65	1.00	1.65	3.00	13.00	50.00
Cattle Manure .....	.45	.65	1.00	1.85	3.25	16.00	60.00
Blood Meal	1.50	2.25	4.00	7.00	12.75		
Aluminum Sulphate.	.60	1.00	1.50	2.50	4.00		
4-12-8 .....	.50	.75	1.20	1.90	3.25		
3-12-12 .....	.50	.85	1.35	2.75	4.00		
2-12-6 .....	.50	.75	1.00	1.75	3.00		
0-12-12 .....	.50	.75	1.00	1.75	3.00		
0-20-0 Phosphate...	.45	.65	.90	1.50	2.50		
Hardwood Ashes....	.50	.85	1.35	2.00	3.75		
Limestone,							
pulverized .....	.30	.45	.55	.65	1.00		
Gypsum or Land							
Plaster .....	.25	.35	.50	.75	1.20		
Hydrated Lime .....	.35	.55	.75	1.00	1.90		
Soot .....	.60	1.00	2.40	4.50	8.00		
Borax .....	.60	.90	1.65	2.75	5.00		

SALT

Water Softener, A Kleeer, 100 lb. bag.....	\$1.40
CC Rock, Ice Cream, Sidewalk, 100 lb. bag.....	1.35
FC Coarse, Stock or Hay, 100 lbs.....	1.05.
White Cattle, 50-lb. block, each.....	.60
Iodized, 50-lb. block, each.....	.95
Sulphurized, 50-lb. block .....	.75
Epsom Salts, for stock or poultry.....	5 lbs. .35

Gould's Special Field Seed Price List

PLEASE NOTE

This price list cancels all prices on any previous issue of the price list, on the same items. We reserve the right to forward seed to the value of the money sent us, according as the market is higher or lower. Prices quoted include free delivery to any railway station in St. Paul. If Field or Grass Seeds, or other items not marked prepaid are wanted by Parcel Post, please add postage.

Issued February 1, 1947

R. L. Gould & Co.

SEEDSMEN SINCE 1898

496-502 Jackson Street, St. Paul 1, Minn.

Due to present conditions over which we have no control, all prices in this price list are subject to change without notice.

DISCLAIMER

R. L. Gould & Co. do not give, and their agents and employees are forbidden to give any warranty, express or implied, as to the description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned and money paid for same will be refunded.

ALFALFA

		60 lbs. to the bushel					
		Lbs. per acre	1 lb.	5 lbs.	1/4 bu.	1/2 bu.	100 lbs.
Grimm							
Registered	12	\$1.00	\$4.75	\$13.50	\$25.00	\$46.80	\$78.00
Northern	12	.95	4.50	12.00	22.00	40.50	67.50
Utah	12	.90	4.25	11.00	20.00	36.00	60.00
Kansas	12	.85	4.00	10.00	18.00	33.60	56.00

CLOVERS

		60 lbs. to the bushel					
		Lbs. per acre	1 lb.	5 lbs.	1/4 bu.	1/2 bu.	100 lbs.
MEDIUM RED							
Minn.-Wis.	8	\$0.95	\$1.50	\$12.00	\$22.00	\$40.50	\$67.50
Idaho	8	.95	4.50	12.50	22.50	41.10	68.50
MAMMOTH RED							
Northland	8	.95	4.50	12.50	22.50	41.10	68.50
ALSIKE OR SWEDISH							
Sterling	8	.90	4.00	11.00	20.00	36.90	61.50
WHITE DUTCH							
Reliable	8	1.50	7.00	17.50	32.00	60.00	100.00
SWEET CLOVER, TALL							
Northland	14	.45	1.75	4.00	7.00	12.60	21.00
SWEET CLOVER, YELLOW							
Northland	15	.45	1.75	4.00	7.00	12.60	21.00

TIMOTHY

		45 lbs. to the bushel					
		Lbs. per acre	1 lb.	10 lbs.	1/2 bu.	1 bu.	100 lbs.
TIMOTHY	10	\$0.35	\$1.65	\$2.35	\$5.25	\$11.50	
TIMOTHY AND ALSIKE MIXED							
Reliable (20% Alsike)	12	\$0.45	\$2.75	\$6.50	\$11.50	\$21.00	

MISCELLANEOUS GRASS SEEDS

		60 lbs. to the bushel			
		Lbs. per acre	1 lb.	10 lbs.	100 lbs.
Kentucky Blue Grass	20	Please Ask For Quantity Prices			
Red Top	10	Please Ask For Quantity Prices			
Astoria Bent		Please Ask For Quantity Prices			
Seaside Bent		Please Ask For Quantity Prices			
Domestic Rye Grass	28	Please Ask For Quantity Prices			
Meadow Fescue	25	\$0.65	\$ 5.00	\$10.00	\$35.00
Sheep Fescue or Chewings	20	1.15	12.00	27.50	105.00
Bromus Inermis	28	.60	4.00	8.50	31.50
Red Canary Grass	5	1.25	9.50	22.00	80.00
Crested Wheat Grass	12	.65	5.00	10.00	35.00

MISCELLANEOUS FIELD SEEDS

		1 lb.	5 lbs.	10 lbs.	25 lbs.	100 lbs.
Sand or Winter Vetch		\$0.60	\$2.00	\$3.50	\$6.75	\$23.00
Sunflower, Mammoth Russian		.50	1.75	3.00	5.00	17.50
Sudan Grass		.35	1.00	1.75	4.00	13.50
Dwarf Essex Rape		.50	1.75	3.00	6.00	20.00

SEED GRAIN

5 bushels or more, 10 cents per bushel less

		Lbs. per bu.				
		1 lb.	1/4 bu.	1/2 bu.	1 bu.	100 lbs.
OATS						
Vicland, Minn. Blue Tag	32	\$0.25	\$0.75	\$1.30	\$2.25	
Ajax Certified	32	.25	.90	1.60	2.85	
Tama Certified	32	.25	.75	1.30	2.25	
BARLEY						
Wis. No. 38 Barbless.						
Not Cert.	48	\$0.25	\$1.00	\$1.75	\$3.25	
L-Type, Not Certified, Rough Awmed	48	.25	1.00	1.75	3.25	
SPELTZ						
Speltz or Emmer	40	\$0.30	\$0.85	\$1.50	\$2.50	
RYE						
Rosen Winter	56	\$0.35	\$1.25	\$2.25	\$4.25	
Spring Emerald, Certified	56	.35	1.25	2.25	4.25	
WHEAT						
Marquis Type	60	\$0.20	\$1.15	\$2.00	\$3.50	
Mida Type	60	.20	1.15	2.00	3.50	
New Thatch Type	60	.20	1.15	1.85	3.50	
Red Durum Type	60	.20	1.00	1.75	3.25	
FLAX						
Bison Type	56	\$0.35	\$3.00	\$5.75	\$10.75	
Red Wing	56	.35	3.00	5.75	10.75	

FIELD PEAS AND FIELD BEANS

		60 lbs. to the bushel				
		1 lb.	1/4 bu.	1/2 bu.	1 bu.	100 lbs.
Canada Yellow Peas	25	\$1.75	\$3.25	\$6.00	\$9.75	
Soy Beans, Manchu Type	25	1.00	1.75	3.25	5.25	
Soy Beans, Mandarin Type	25	1.00	1.75	3.25	5.25	
Soy Beans, Habaro Type	25	1.00	1.75	3.25	5.25	

BUCKWHEAT

		50 lbs. to the bushel				
		1 lb.	1/4 bu.	1/2 bu.	1 bu.	100 lbs.
Common		\$0.25	\$1.00	\$1.75	\$3.00	\$5.50

PRICE LIST SUPPLEMENT TO CATALOG

Issued February 1, 1947

Prices Subject to Change Without Notice

ONION PLANTS

Prices Will Be Given Later

ONION SETS

Prices Will Be Given Later

FIELD CORN—HYBRID

These quotations are f. o. b. St. Paul. All corn offered subject to stock remaining unsold.

	1 lb.	¼ bu.	½ bu.	1 bu.
Hybrid Flat, 80 Day KFL....	\$0.15	\$3.25	\$6.00	\$10.50
Hybrid Flat, 85 Day KE2....	.45	3.25	6.00	10.50
Hybrid Flat, 90 Day KE1....	.45	3.25	6.00	10.50
Hybrid Flat, 100 Day KS6....	.45	3.25	6.00	10.50
Hybrid Large Rd.				
100 Day KS6.....	.35	2.50	4.00	7.00

SILO AND FODDER CORN

	1 lb.	¼ bu.	½ bu.	1 bu.
Elephant Fodder	\$0.25	\$1.10	\$1.95	\$3.50
Red Cob Fodder.....	.25	1.10	2.00	3.60
Hybrid Silo (Treated), 100 to				
110 days, Flat.....	.30	2.00	3.50	6.00
Evergreen Sweet Corn Fodder, per 100 lbs.....				12.00

POPCORN

	1 lb.	5 lbs.	10 lbs.	25 lbs.	100 lbs.
Dwarf Hulless Hybrid					
Minn. 250	\$0.75	\$3.50	\$6.50	\$15.00	\$58.00
White Hulless, Jap.....	.60	2.25	4.00	9.00	20.00
South American Yellow.....	.50	2.00	3.50	7.50	25.00
South American Yellow					
Hybrid .....	.95	4.00	7.00	16.00	60.00

SORGHUM

	Lbs. per acre	1 lb.	10 lbs.	25 lbs.	50 lbs.	100 lbs.
Early Black Amber						
(Fodder)	50	\$0.25	\$1.65	\$3.50	\$6.50	\$12.00
Waconia Orange	50	.25	1.50	3.25	6.00	10.00

MILLETS

48 lbs. per bushel. In seamless sacks containing about 130 lbs.

	1 lb.	¼ bu.	½ bu.	bu.	100 lbs.
Siberian	\$0.20	\$1.15	\$2.00	\$3.75	\$6.50
Hungarian .....	.35	1.50	2.75	5.25	9.75
Hog Millet or Broom Corn....	.15	.90	1.65	3.00	5.50
Early Fortune or Red Proso....	.15	.90	1.65	3.00	5.50
German .....	.35	1.40	2.65	5.00	9.50
Japanese .....	.35	1.50	2.75	5.25	9.75

PERENNIAL FLOWER SEEDS.

CULTURE. The seed bed must be well drained, fine and firm. If the soil is at all heavy, lighten with peat or sand. The seed may be planted from May to early July. When seedlings have two pair of leaves transplant into rows a few inches apart each way, and later when they begin to crowd transplant a second time. This involves extra work but is necessary to raise sturdy plants. Keep them partly shaded all summer. In August or September, if well developed, they may be placed in their permanent locations where they are to blossom the following year, or left in the seed beds for early spring transplanting.

BIENNIALS. Some varieties if planted early will bloom the first year, but most bloom the second year and die.

PERENNIALS. Many varieties bloom the first year, but usually they start the second year and live indefinitely, excepting that they die down in winter and come to life again in the spring.

SPACING. A safe rule is to plant perennial plants one-half the ultimate height, apart. Do not crowd plants.

CULTIVATION. Use the hoe freely in keeping the ground well cultivated all summer long. You will be repaid with stronger plants and more beautiful flowers.

WINTER PROTECTION. It is best to cover young plants the first winter with marsh hay or similar mulch along in November, before real cold weather sets in. Most perennials need no winter covering after they have become established, but some, like Oriental Poppies, Shasta Daisies, Tritoma and Iris ought to have a winter covering in late November, here in the Northwest. Remove covering gradually in the spring.



Agrostemma
(Coronaria)

Stout, erect-growing plants with silvery foliage, which contrasts well with the showy bright rosy-crimson flowers produced during June and July. Grows 2 feet high. Fine for border or rockery.

Atro-sanguinea. Pkt. 10c.

Agrostemma

Alyssum Saxatile (Basket of Gold)

Has masses of bright yellow flowers. After the blooming season is over the seed pods may be used in Everlasting bouquets. Grows 8 to 12 inches high. Pkt. 10c.

Anchusa (It. Dropmore Variety)

Blue, large, forget-me-not-like flowers. Very fine for the back of the perennial border or for a screen. Grows 4 to 5 feet high, blooms in June and July. Pkt. 10c.

Myosotidiflora. Lovely forget-me-not blossoms of pale blue in May. Only 12 inches high. Pkt. 25c.

Anthemis (Hardy Marguerite)

Grows about 12 to 15 inches high, bearing in profusion, daisy shaped, yellow or white flowers, that blossom in July and August.

Kelwayi. Golden yellow. Pkt. 10c.

Arabis Alpina (Rock Cress)

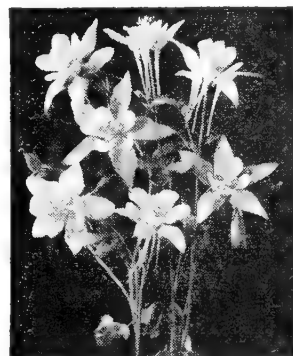
Plants are spreading, only 12 inches high, with pure white flowers in spring. Pkt. 10c.

Armeria

A pretty border or rock garden plant that does well even in poor soil. Foliage is grasslike, above its base numerous stiff stems carry little globe-shaped flowers in early summer. Perfectly hardy. Height 6 to 24 inches. **Formosa Large Flowering Hybrids.** 24 inches tall. Pkt. 10c.

Aquilegia (Columbine)

Charming hardy perennial plants growing from 12 inches to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear blue, white, rose, lavender, yellow and purple. For planting in permanent borders along woods or shrubbery they are unsurpassed. Fine for the rockery. Do best where there is partial shade.



Aquilegia

Mrs. Scott Elliott's Strain of Long Spurred Hybrids.

This is one of the very finest strains grown. Height, 2½ feet. Mixed colors. Pkt. 15c.

Dobbie's Imperial Long Spurred. A fine strain producing large flowers in brilliant colors. Height about 2½ feet. Pkt. 15c.

Coerulea (Rocky Mountain Columbine). A lovely combination of blue and white. Blooms May to July. Plants 1 to 2 feet. Pkt. 15c.

Asters

Single fall-flowering hardy herbaceous plants thriving in any good garden soil producing masses of dainty and brightly colored blossoms. Dwarf varieties bloom in late spring and early summer; tall varieties in late summer and fall.

Amellus Hybrids.

Early. Height 2½ feet. Pkt. 15c.

Michaelmas Daisy. Newest varieties mixed. Plants 3 feet high. Pkt. 15c.

Alpine. Dwarf plants 6 to 10 inches high with large showy bluish-purple flowers with yellow centers. May-June. Pkt. 15c.

Aubrietia—(Rainbow Rock Cress)

Showy and beautiful creeping plants, about 6 inches, for borders or rockeries. Flowers of violet, crimson and rose form a solid mass of color for weeks. Blooms in April and May. Pkt. 15c.

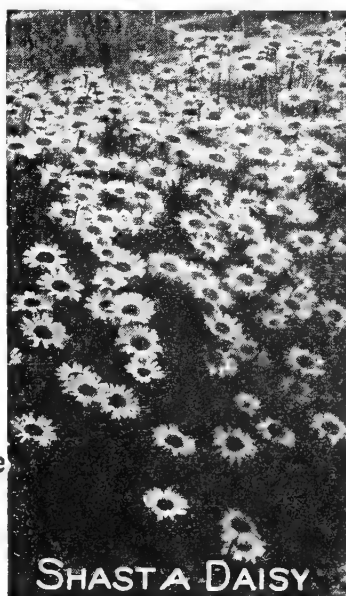
Bellis (English Daisy)

They are semi-hardy and thrive best in a cool, shady place, but do well in almost any soil. Admirably adapted for edgings, borders and low beds, will bloom for years if given winter protection. Height 6 to 8 inches. Mixed colors. Pkt. 25c.

Catananche

(Cupid's Dart)

Flowers pale violet with dark center. Grows 12 to 18 inches high. A very nice border plant and Everlasting flower. **Coerulea.** Pkt. 10c.



SHASTA DAISY

Campanula

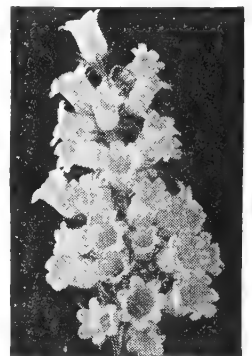
Well known beautiful hardy herbaceous perennials and biennials bearing a great profusion of attractive bell-shaped flowers, thriving best in light, rich soil. Tall varieties are fine for cutting. Heights vary from 9 in. to 5 ft.

Canterbury Bells

(*Campanula Medium*). Grow about 3 feet high and produce single or double bell-shaped flowers in blue, white, purple and pink colors. Single or Double Mixed Colors. Pkt. 10c.

Cup and Saucer type

(*Campanula Calycanthema*). In this variety the outer petals form a brim, like a saucer. 2 ft., mixed colors. Pkt. 10c.



Campanula Medium

Carpatica (Harebell). A pretty variety only 9 inches high, producing clear blue flowers on erect wiry stems from June until Sept. Fine for rockery. Does well in partial shade. Pkt. 15c.

Persicifolia (Peach Bells). Blue flowers on 2-3 ft. plants, bloom in June and July. Pkt. 15c.

Hardy Carnation

A large flowered, long stemmed, hardy carnation of merit. Plants 2 feet.

Teicher's Mixed. Pkt. 25c.

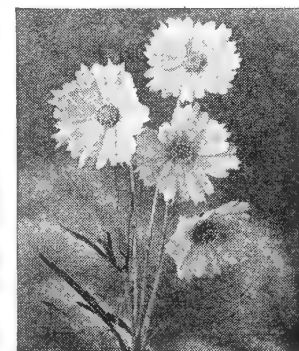
Centaurea (Bachelor Button)

The flower resembles the annual Cornflower. **Montana.** Deep blue. Pkt. 10c.

Cerastium (Snow in Summer)

A pretty perennial plant for edging and rockery. Foliage is silvery and hairy; flowers white, covering plant completely in June. 6 inches. Pkt. 10c.

Coreopsis



Coreopsis Lanceolata

A hardy perennial about two feet high that produces an abundance of large, daisy shaped flowers on long stems. One of the best perennials for cut flowers. **Lanceolata.** Single. Pkt. 10c.

Double Sunburst. The fully double flowers are 1½ to 2 inches across, deep golden yellow. Bloom early. An excellent cut flower. Pkt. 10c.

Double New Gold. Fine golden yellow. Pkt. 10c.

"The Northern Garden Week by Week," by Daisy T. Abbott. Here is a book by this well-known author with simple and easy to follow directions for the busy person. You will enjoy this book and your gardening will be made so much easier and enjoyable. Price \$1.00.

Daisy, Shasta

Alaska. A hardy perennial bearing large pure white flowers, in great profusion on long stems, making it fine for cut flowers. Blooms all summer. Height 24 to 30 inches. Pkt. 10c.

Shasta, Conqueror. Flowers as large as Alaska on stems 2 to 3 ft. Pkt. 10c.

New Giant Double White. Double flowers ranging through semi-doubles to a type though single, forms beautiful large flowers with curled, quilled petals. Height 2 to 3 ft. Pkt. 25c.

PERENNIAL PLANTS

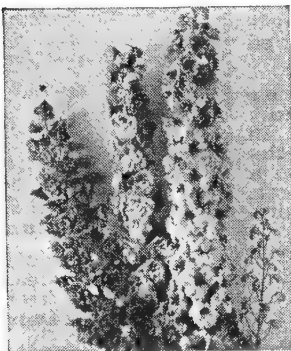
We carry a complete variety of plants during the spring season. Drop in and see our fine assortment.

PERENNIAL MIXTURE

As many as 20 different kinds of perennials are included in this splendid mixture. Pkt. 10c.

Delphinium (Hardy Larkspur)

Very decorative border plants ranging in height from two to five feet. Colors range from various shades of blue to white, pink and scarlet. When plants are 15 inches high, they should be staked to prevent breaking down. As blooms die, cut stems to the ground and you will get a second flower spike in late summer.



Delphinium
Pacific Giants

Improved Bellamosum. This is a dark form of the light blue Belladonna; flowers rich deep blue. 3 to 4 ft. Pkt. 10c.

Gold Medal Hybrids. Many are double flowered and range in color from pale lavender to indigo blue. Mixed colors. Height, 3 to 4 ft. Pkt. 10c.

Lamartine. Rich deep blue with white eye. Sturdy plants grow 4½ to 5 ft. Pkt. 10c.

Cardinale. "Scarlet Larkspur." Long spikes of scarlet flowers. Seed germinates slowly. Grows 2 to 3½ feet high. Pkt. 15c.

Chinensis (Chinese Larkspur). Will bloom the first year from early sown seed. Flowers freely from June to September. Lovely in beds or borders, fine for cutting. Plants 2 to 3 ft. high. Tall varieties. Mixed. Pkt. 10c.

New Hollyhock Strains

These remarkable new Delphiniums now furnish flower lovers with something new which has long been desired. The spikes of flowers are of unusual size and stalks much taller than any Delphinium now being offered.

Pacific Giants. This is a most wonderful strain of Delphiniums. The plants are about 5 feet tall, and of branching habit, yet the flower-spikes are unusually well formed and not at all over-heavy. Comes in a magnificent range of colors and lovely pastel shades. Mixed colors. Pkt. 25c.

Galahad Series. Huge clear white. Pkt. 35c.

Blackmore and Langdon Type. Contains some of the finest Delphiniums, in colors from the lightest blue to dark blue. Height, 3 to 5 ft. Choicest mixed. Pkt. 15c.

Bodger's Hollyhock Strain. A selection of light shades. Pkt. 15c.

Wrexham's Hollyhock Strain. Flowers in blue, white and pink combinations many of them bicolors. Many spikes are 1½ to 2 inches in diameter. Plants, 4 to 5 feet. Pkt. 15c.

Dianthus (Hardy Garden Pinks)

These old garden favorites with their carnation-like flowers and clove scent are especially valuable for cut flowers. 12 to 18 inches. Mixed colors. Pkt. 10c.

Dictamnus (Gas Plant)

A bushy perennial about 3 feet high with attractive flower spikes. The plant oils give off a vapor which will ignite if a lighted match is held under a seed cluster on a sultry summer evening. **Fraxinella.** Mixed. Pkt. 15c.

Digitalis (Foxglove)

A very interesting family of old-fashioned plants, whose culture is so simple as to bring them within the reach of all. It grows in strong clumps and is one of our very fine hardy biennials. Grows 2 to 4 ft. Mixed colors. Pkt. 10c.

Shirley. A giant variety of the Gloxinia flowered type. Flower spikes 4 feet long of purest white to deepest rose colors, handsomely spotted. 5 to 7 feet. Mixed colors. Pkt. 10c.

Grandiflora. A hardy perennial blooming in June and July. Flowers yellowish marked with brown. Plants 2 to 3 feet. Pkt. 15c.

Gaillardia (Blanket Flower)

A very free blooming perennial bearing large yellow, or red daisy-shaped flowers. Very easy to grow and will bloom all summer. Splendid for cut flowers. Do best in rich light soil and sunny situation. Height, 24 to 30 inches. **Grandiflora.** Mixed colors. Pkt. 10c.

The Dazzler. Flowers very large, intense maroon-red and golden-yellow tip on the end of each floret. Pkt. 10c.

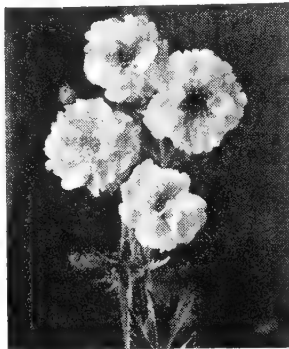
Monarch Strain. Finest mixed. Pkt., 10c.



Gaillardia,
The Dazzler

Grandiflora Goblin. The Little Goblin Gaillardia is the first really dwarf, compact variety especially suited to the rockery. The neat plants reach a height of about 12 to 15 inches, closely covered with large, showy, yellow bordered deep red flowers. Goblin is fine for edges in the perennial border. Pkt. 10c.

Geum



Geum, Lady Stratheden

Flower stems should be dipped in warm water after cutting to avoid wilting.

Mrs. Bradshaw. Of orange-scarlet color, blooming the first year if sown early. Pkt. 10c.

Lady Stratheden. Rich golden-yellow flowers. Pt. 10c.

Hybrida mixed. Pkt. 10c.

Gypsophila (Baby's Breath)

These airy plants produce many tiny blossoms on delicate-appearing but sturdy, well-branched stalks. Are fine for cut flower mixtures. May be dried to use in winter bouquets. 2 to 3 ft.

Paniculata. Single white. Pkt. 10c.

Paniculata. Double white. Pkt. 15c.

Pacifica. Especially hardy. Grows to 4 feet the second year. The tiny pink blossoms flower late. Pkt. 10c.

Repens. Dwarf Baby Breath. Splendid in rockeries. Mixed colors. Pt. 10c.

Helianthemum (Dwarf Sun Rose)

Low growing plants completely covered with bloom during July and August. Pale rose changing to lilac, then to white. Excellent for rockeries. 8 to 12 inches. **Mutabile.** Pkt. 10c.

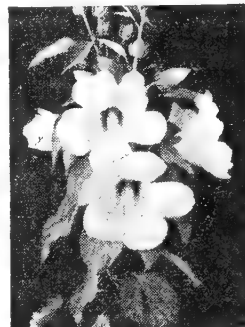
Heliopsis (Orange Sunflower)

A new double flowering perennial bearing golden-yellow Zinnia-like flowers from July on. Height about 3 feet. Fine for cut flowers. Pkt. 15c.

Heuchera (Alum Root, Coral Bells)

Does well in any garden soil producing dainty sprays of rose carmine flowers on long stems. Plants grow 15 to 20 inches. Pkt. 25c.

Hibiscus (Rose Mallow)



Hibiscus

Showy shrub-like plants, 3 to 5 feet high, with handsome green foliage, on which large flowers 3 to 9 inches in diameter are borne from July until fall. Hibiscus send up new shoots each year and are perfectly hardy in the Northwest. Are slow starters in spring. Mixed colors. Pkt. 10c.

Hollyhocks

The Chater's strain produces for the most part, flowers which are densely double, although occasionally some single blossoms are seen among them. The colors range from pure white to darkest maroon, some are bright and gay, others of the softest and most delicate shades and tints. The plants grow 5 to 7 feet in height.



Hollyhocks

Double Hollyhocks

Chater's Double. Finest mixed. Pkt. 10c.

Single and Double. Mixed. Pkt. 10c.

Double Imperator. Large rosette flowers, in charming color combinations. Pkt. 10c.

Double Triumph. Beautifully fringed rosette flowers in many new shades and bi-color combinations. Pkt. 10c.

Single Hollyhocks

Many prefer the single-flowering hollyhocks. They are usually of freer growth than the doubles and present a very handsome appearance. Mixed. Pkt. 10c.

Honesty (See Lunaria)

Iberis (Hardy Candytuft)

Fine for early decorations. Bloom in spring and early summer. Much used for rockeries and cemeteries.

Sempervirens. White, 12 in. Pkt. 15c.
Gibraltarica. White flushed lilac. 1 foot. Pkt. 10c.

PERENNIAL PLANTS

We carry a complete variety of plants during the Spring Season. Drop in and see our fine assortment, during May and June

Lathyrus (Hardy Sweet Pea)

Showy, free flowering, hardy perennial climber, valuable for covering old stumps, fences, etc., continually in bloom. Good for cut flowers. They require a rich deep soil. Grows 5 to 7 feet tall. Mixed. Pkt. 10c.

Lavendula Vera (True Lavender)

Delightfully fragrant flowers July and August. Used dry for their lasting perfume. Plants grow 12 to 18 inches high. Pkt. 15c.

Lilium Regale (Regal Lily)

One of the most beautiful of all known lilies. Flowers are delightfully perfumed, of white, slightly suffused with pink. Blooms in July. Bulblets from spring planted seeds should be lifted and planted deeper in the fall. These bulblets will flower the following summer. Height, about 3 feet. Pkt. 10c.

Lilium Tenuifolium (Coral Lily)

This is only 24 inches high and one of the earliest to bloom. Flowers are deep scarlet and have recurved petals of waxy texture. Pkt. 10c.

Linum (Flax)

A pretty plant for the border, with light graceful foliage, bearing delicate flowers through the entire summer.

Perenne, dainty sky-blue flowers on graceful arching stems. Grows 30 inches high. Pkt. 10c.

Lobelia

Grows 2 to 4 feet in height, bearing long spikes of brilliant flowers from July to September.

Cardinalis, (Cardinal Flower) flaming scarlet. Pkt. 15c.

Perennials for Rock Gardens

Alyssum Saxatile.	Gypsophila Repens.
Arabis.	Helianthemum.
Armeria.	Heuchera.
Aubrietia.	Myosotis.
Bellis or Daisy.	Nepeta.
Campanula	Oenothera.
Carpatica.	Poppy Nudicaule.
Cerastium.	Saponaria Ochyroides.
Geum.	Violas.

Lunaria (Honesty or Satin Flower)

A curious biennial chiefly grown for its shiny silvery seed pods, which make a useful winter decoration, arranged with flowers in baskets and bouquets. Grow 18 to 24 inches high. Pkt. 15c.

Lupine

Forms dense bushes 3 to 4 feet high, of elegant spikes completely clothed to the ground with white, rose and blue fragrant flowers from June to September. Lupines are of the hardiest perennial plants grown, and will thrive in the poorest soil. Mixed colors. Pkt. 10c.

Lupines should be inoculated with Nitragin. Garden size, 10c.

Russell Lupines. This strain of Lupines has enormous flower spikes 3 feet long, closely set with individual flowers. Extraordinary range of colors. Plants 3½ to 4 feet high. Mixed colors. Pkt. 15c.

Lychnis

Handsome hardy perennial with brilliant colored flowers. Excellent for borders; blooms first year if sown early.

Chalcedonica (Maltese Cross). Flowers fiery red in clusters, each blossom forming a Maltese cross. Blooms June to August. Plants 3 ft. high. Pkt. 10c.

Myosotis (Forget-Me-Not)

These dainty little flowers love cool moist soils, and bloom freely in spring and fall. They make beautiful close borders or edgings. They flower the first season from early spring-planted seed, or seed may be sown in late summer or early fall. Grow 8 to 12 inches high.

Alpestris. The Alpestris Myosotis while a perennial, needs winter protection. Is mostly treated as an annual; bright blue. Plants 8 inches high. Pkt. 15c.

Palustris. (Hardy Forget-me-not.) Dwarf blue plants that bloom from early spring until fall. Fine for rock gardens or edgings. 10 inches. Pkt. 15c.

FOR MORE
BEAUTIFUL
FLOWERS



Nepeta

An excellent perennial plant for the rock garden, or anywhere. Very compact, producing during July and August masses of beautiful flowers. **Macrantha.** Violet, 2 feet high. Pkt. 15c.

Oenothera (Evening Primrose)

Are elegant plants for growing in an exposed sunny position, either in the border or rockery. Grow 10 to 12 inches high and bear from June until August, large flowers, often 5 inches in diameter.

Missouriensis (macrocarpa). Yellow flowers. Pkt. 15c.

Passiflora (Passion Flower)

Highly interesting herbs and shrubs, mostly climbers that legend and superstition have attached to these plants from the first. The flowers are of unusual structure, thought by early discovery to be emblematic of the crucifixion of Christ. A beautiful vine for the greenhouse or window. Plant in a sunny place outdoors in summer. Mixed. Pkt. 10c.

Pentstemon (Bearded Tongue)

The plants are pyramidal, 2 to 3 feet high, with erect branches thickly set with flowers 1½ inches long, varying in all shades from rosy-white to purple with white or veined throats. Bloom the first season from spring-sown seed. Flower from July until frost.

Sensation Improved. Colors vary from pink to scarlet and maroon, beautifully blotched and veined with other colors. Pkt. 15c.

Physostegia

These handsome plants flower from July until frost, growing 3 to 4 feet high and bear broad dense spikes of delicate pink tubular flowers not unlike a giant Heather. One of the most beautiful of our mid-summer flowering perennials. **Virginica.** Pkt. 15c.

Platycodon (Bell-Flower)

A member of the Campanula family, with handsome, branching spikes 1 to 2 feet high. Platycodon is considered by many the best bell flower. They bear these large, showy deep-blue flowers continuously from July until frost.

Mariesi, dark blue. 1 ft. Pkt. 15c.



Platycodon

PERENNIAL FLOWERING PLANTS

During May and June we will have a large assortment of potted plants.

INDOOR GARDENER, by Daisy T. Abbott. This book tells all you need to know for potting, repotting, watering, feeding and propagating plants indoors. 96 illus. \$1.50.

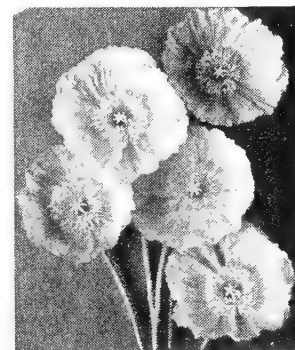
Phlox (Hardy Phlox)

These beautiful hardy border plants are among the most effective subjects in the garden during late summer and early fall. Phlox require a soil that is deeply enriched and plenty of water during the blooming period. Divide plants every four years. We are offering a most select strain of seed.

Decussata. Seed slow and erratic in germinating and the seedlings may not appear for a year. Grow 2 to 3 feet high. **Finest mixed.** Pkt. 15c.

Poppy, Iceland

Similar to the annual Shirley Poppy but in addition to the white, red and pink shades of the latter, the Iceland Poppy is often a fine yellow or orange color. Plants grow 12 to 15 inches high. Will flower entire season if seed pods are kept picked. Pick when in bud for cut flowers. Bloom the first season from spring-planted seed.



Poppy
Gartford Giants

Gartford Giant Art Shades. This new strain with exceptionally fine, large flowers, beautifully fluted and soft textured, carried on extremely long heavy stems up to 30 inches in length, comes in a range of pastel shades. Mixed colors. Pkt. 15c.

The Emperor. 20 inches. The very finest orange Iceland Poppy ever produced. The large flowers are a deep tangerine orange. Blooms freely first year if sown early. Pkt. 15c.

The Empress. 20 inches. A remarkable giant poppy, excellent for cutting. Color is a lovely shade of salmon rose and pink. Pkt. 15c.

Sanford's Giants. vigorous growers, long stems, beautiful colors. Pkt. 15c.
El Monte, deep tangerine orange. Pkt. 15c.

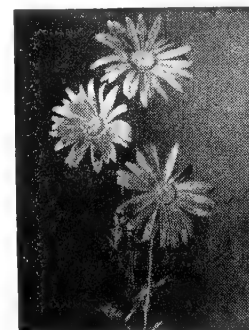
Poppy, Oriental

One of the most gorgeous of all perennials, producing in May and June its enormous blossoms, often 6 inches in diameter. The colors range from soft blush and rose to flaming scarlet and richest maroon. Often one plant will show 10 or 15 blooms. Height, 18 to 30 in. **All colors mixed.** Pkt. 15c.

Oriental Scarlet. Very striking and glorious color. Pkt. 15c.

Salmon Shades. New shades of salmon and salmon-pink tints are offered now in this popular perennial. Pkt. 15c.

Pyrethrum (Painted Daisy)



Pyrethrum

Bears large daisy-like flowers ranging in color from white to deep red with bright yellow centers; fine for cutting. Blooms in early spring and again in the fall. Plants grow 20 to 30 inches.

Roseum. Single mixed. Pkt. 15c.

Roseum. Single and double. Pkt. 15c.

Roseum James Kelway. Deep scarlet. Pkt. 15c.

Rock Garden Mixture

A selection of finest dwarf perennials. Many lovely plants, 6 to 15 in. high. Pkt. 10c.

Romneya (Matilija Poppy)

Plant in a well-drained, sunny, sheltered location. Grows 4 to 5 feet high. Blooms June to August. Plants must have winter protection in the Northwest. Coulteri, White. Pkt. 15c.



Rudbeckia

Rudbeckia

(Cone Flower)

This is a hardy, free flowering and easily grown perennial. The daisy-like flowers are fine for cutting, blooming from July until October.

Purpurea, rosy purple, 4 feet. Pkt. 15c.

Salvia

Treat as an annual here in the Northwest. Plants grow about 3 feet tall, bearing long spikes of deep blue flowers in August. Seed should be sown indoors in February. **Farinacea Blue Bedder**. Pkt. 15c.

Saponaria (Bouncing Bet)

A very showy, trailing, hardy perennial rock plant about 9 inches high, producing in summer small, bright rose flowers. **Ocymoides**. Pkt. 15c.

Scutellaria (Skull Cap)

Pretty blue rock plant, 18 inches high, dense bushy habit, abundance of light blue flowers, June to August. **Coelestina**. Pkt. 15c.

Scabiosa Caucasicca



Scabiosa Caucasicca

Resembling in shape the annual Scabiosa, but plants are more vigorous and produce longer and stouter stems as well as larger flowers. Of a delicate lilac, blue, pink or white shades. The plants grow 18 to 24 inches high, blooming from July until frost.

Giant Hybrids (Isaac House, Strain). Very large fringed and ruffled flowers in various shades of blue. Pkt. 15c.

Statice (Sea Lavender)

Produces a mass of tiny blossoms resembling the Baby's Breath, during July and August. These, if cut and dried, last for months.

Latifolia. A charming variety for the border or rockery of purplish-blue color. Fine for bouquets. 1 ft. Pkt. 10c.

Sweet William (Dianthus Barbatus)

A beautiful, free-blooming hardy perennial producing a splendid effect in beds and borders with rich and varied flowers. Grow 15 to 20 in. high.

Single Mixed, Pkt. 10.

Double Mixed, Pkt. 15c.

Thalictrum (Meadow Rue)

The charming rose and white flowers and fern-like leaves are produced in graceful sprays during August and September. Plants about 4 feet. **Dipterocarpum**. Pkt. 15c.

Tritoma (Red Hot Poker)



Tritoma

These hardy plants will flower the first year if seed is sown early. They grow 3 to 4 feet high and bear in August blazing, orange-red spikes, blooming until frost. Pkt. 10c.

Valeriana (Garden Heliotrope)

A hardy plant, rather spreading, with silvery green foliage, producing large clusters of rosy white, very fragrant flowers, during June and July. Fine for bouquets. 3 to 4 ft. Pkt. 15c.

Verbena

A new form of hardy Verbena with fern-like foliage 18 inches high, lavender-blue flowers produced in clusters. Blooming period from June to October. If seed is sown early, will bloom the first year. **Bipinnatifida**. Pkt. 15c.

Veronica Speedwell

Plants about 18 inches, bearing small spikes of rich blue flowers most of the summer. Fine for cutting. **Spicata**. Pkt. 15c.

Wallflower (Cherianthus)

Half hardy perennials bearing early, dainty yellowish, red or orange flowers, which have a delicious odor. Require winter protection in the Northwest. May be started indoors and set out in May. Height, 15 to 18 inches. Single or double, finest mixed. Pkt. 15c.

PERENNIAL FLOWERING PLANTS. During late April, all of May and early June, we offer a large assortment of sturdy field grown plants.

Bulbs and Roots

Many Lily bulbs have come from the Orient in past years and due to present conditions varieties not priced are not available at the time this catalog is being printed.

AMARYLLIS. A fine strain in a wide range of beautiful colors. They are easy to grow in the house. Mixed only. Each, 40c.

ANEMONE. Windflower. Thrive best in a rich sandy loam, but will do well in most any well drained garden soil. Plant bulbs 6 to 7 inches apart, 2 inches deep, laid flat with growing knob upwards. Soak tubers before planting. After flowering and leaves have dried off, lift tubers and store in dry sand. **De Caen** Single, Mixed. Each, 8c; 2 for 15c; doz., 75c. **St Brigid.** Semi-double and double. Mixed. Each, 8c; 2 for 15c; doz., 75c.

AURATUM LILY. Flower heads are large with broad petals gracefully recurved. White, thickly studded crimson maroon, with a wide gold band down the center of each petal. Plant 9 inches deep.

BEGONIA. Tuberous rooted. These profusely-flowering plants are deservedly popular for garden, flowering all summer. Plant in shade and in light soil. Colors: scarlet, salmon, orange, white, rose, yellow. Each, 35c; doz., \$3.50.

CALADIUM (Elephant's Ear). Plants produce large, broad, green leaves. Each, 25c.

CINNAMON VINE. Well-known climber; quick grower, with beautiful glossy heart-shaped leaves and sweet-scented flowers. Vines will grow 25 to 40 feet in a season. Each, 10c; 3 for 25c.

CORAL LILY (Lilium tenuifolium). Deep coral-red flowers. Bloom during June and July. A charming lily for border or rock garden. Plant 5 in. deep. Each, 15c.

ELEGANS LILY. Very hardy, dwarf lilies thriving in any garden and producing large, erect flowers of various shades of yellow, orange or red. Grow from 1½ to 2 feet high and bloom during June and July. Plant 6 inches deep.

GLOXINIAS. Showy flowering bulbs for the window, garden or conservatory. Each, 35c; 3 for \$1.00.

HENRY LILY. Rich apricot yellow flowers with brown spots during August and September. Plant 10 inches deep.

ISMENE CALATHINA (Peruvian Daffodil). A grand summer flowering bulb, producing with great freedom large Amaryllis-like, pure-white, fragrant blossoms. Exceptional for cut flowers. Each, 30c.

JAPONICUM LILY (Krameri). Flowers a lovely clear pink, often shaded blush. Blooms in June. Plant 8 inches deep.

MADEIRA VINE. The old "Climbing Mignonette." Prized on account of its rapid growth and freedom from insects. Thick, glossy leaves, and long, hanging stems of feathery, fragrant, white flowers. Each, 8c; 2 for 15c.

MONTBRETIAS. Bulbs make lovely cut flowers on spikes like miniature gladioli. Treat same as gladioli, plant 3 inches deep and about 4 inches apart. Colors are scarlet, orange, yellow and salmon. Mixed only. Each, 12c; doz., \$1.25.

OXALIS. They produce an unbroken row of foliage about one foot high in continuous bloom. The colors are white, red or pink. Mixed only. Each, 5c; doz., 50c.

RANUNCULUS. Soak bulbs in water a few hours before planting. Set 3 to 4 inches apart, press firmly into soil, claws downward. Cover with sand, then with soil. Keep crown of tubers 2 inches below surface. Liberal supply of water with good drainage is necessary. Plant where a little shade is available. **Giant Mixed.** Each, 8c; 2 for 15c; doz., 75c.

REGAL LILY. This beautiful species is acknowledged to be the finest of all hardy lilies. Pure white, shaded pink on outside of petals. Blooms early in July. Plant 9 to 12 inches deep. Each, 40c.

RUBRUM LILY. White shaded and spotted with rose and black. Flowers in August. One of the most beautiful of all lilies. Plant 9 inches deep. Each, \$1.15.

TIGER LILY. The Tiger Lily with its showy spotted red-orange flowers blooms in August. Very easy to grow, thriving in full sun in any soil. Single or double. Plant 8 to 10 inches deep. Each, 35c.

TIGRIDIA. Mexican bulbs producing showy, large, oddly-shaped blooms of gorgeous beauty, in red, orange, yellow, etc. Grow 18 inches high, flowering all summer long. Handle the same as Gladiolus. Mixed. Each, 10c; 3 for 25c.

TUBEROSES (Dwarf Double Pearl). Pure white. One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. Plant as soon as the ground becomes warm. Plant 2 inches deep. Each 13c; 2 for 25c; doz., \$1.30.



Iris Is a Grand Early Season Bloomer

IRIS

Iris should be planted in a sunny location and may be planted in groups or singly. Bearded varieties in general prefer an alkaline rather than an acid soil. The Iris should be planted in a well-drained location as too much moisture, especially in hot weather, may cause the roots to decay. Iris may be planted at any time of the year except when they are in bloom or when the ground is frozen, although the best time for planting is in the summer months of July and August.

We are offering the following select list of popular Iris. Orders will be accepted for July or August delivery. We can also supply almost any variety of Iris. The roots or rhizomes are larger in July and August than in the spring.

OUR IRIS SHOW

During the blooming period of Iris, usually the end of May and early June, we have on display in our store a large number of Iris blooms, among them some of the world's newest and finest varieties. Date will be announced in the daily papers.

Angelus. One of the Grand Champions in the Iris Shows. Large flower, light pink with lavender iridescence. 3 blooms open at one time. Each, 60c.

At Dawning. Two-tone of pink. One of the first to bloom. A glowing beauty. 30 inches. Each, 40c.

California Gold. One of the most sensational new color advancements that the Iris world has seen. It is a rich, bright shiny yellow of fine size and excellent proportions, a real novelty. Each, 35c.

Cheerio. Noted for its brilliance and charm. The flowers are very rich looking; the velvety red petals contrasting with the bright rosy red upright petals. You will enjoy this fine Iris. Each, 35c.

Copper Lustre. Colored just like a piece of old copper ware, it is a true copper-colored Iris. The entire flower is the same shade. Large, full flowers as distinctly colored as any Iris we list and very popular. Each, 50c.

E. B. Williamson. Silken glowing copper red. A lively color that shines and sparkles. Fragrant. Free flowering on 3-ft. stems. Each, 50c.

Fair Elaine. Here is an Iris with new coloring, like a daffodil with colors even fresher. The top three petals of this flower are a creamy white and the falls are rich butter yellow. A jewel. 38 inches. Each, \$1.00.

Frieda Mohr. A lavender rose color, very rare. Blooms are beautifully formed and extra large. Strongly recommended. Each, 35c.

Gudrun. Large, shapely blooms splendidly textured. A lustrous snowy pure white. It has a cool glistening frosty appearance. The many flowered stems give a mass of bloom; it is deservedly one of the most popular whites grown and a prize winner on the show bench. Each, 35c.

Los Angeles. A huge satiny white of beautiful form, delicately marked blue which you will admire. Each, 35c.

Missouri. One of the outstanding clear blue, one of the classics of the Iris world. In every way a splendid Iris. Each, 50c.

Naranja. The first orange-toned yellow Iris. The orangey overcast is very striking. A very broad formed flower. Most unusual and very desirable because of the unusual color for such a large flower. Each, 40c.

Purple Giant. A striking rich glossy purple so large it is the center of attraction in the garden. The huge blooms profusely produced give a rich carpet of bloom. An aristocrat. Each, 35c.

Shah Jehan. Standards dainty cream buff edged lavender, the falls are rich and magnificent, quickly blending from light fawn to glowing copper, then to rich chestnut. This in turn changes to lustrous tone of velvety purple, climaxed by brilliant orange beard. Each, 30c.

Sierra Blue. About the tallest Iris to date, stems reaching 4½ feet. The color is extra good being a rich shade of near royal blue. You have never seen a blue Iris like this. Just the Iris to plant in the background with shorter ones in front. Each, 35c.

Stained Glass. A glowing red, with the sun shining behind it, is one of the most brilliant of Iris. Reminds one of stained glass. Brilliant, almost a flame. Orange beard. Each, \$1.00.

William Mohr. Huge globular formed blooms. The whole bloom is veined beautifully manganese violet on pale lilac. Give it a warm sunny location. No other Iris like it. Each, 35c.

Winneshiek. One of the finest of the rich velvety blue-black color section with segments unusually broad and lustrous. A touch of ruffling augments its graceful form. A lighter margin on rich velvety falls. Each, 35c.

On Mail Orders, add 10c for one Iris, and 1c for each additional root.

CANNAS

Cannas with their rich foliage and brilliant flowers are a big favorite as a beautifier of home grounds and parks.

The Cannas thrive under almost any conditions and if given a little care and attention, will produce an abundance of attractive foliage as well as large spikes of beautiful flowers of unusually bright colors. Their long flowering season insures a constant display of color.

Cannas make the best showing when planted in beds by themselves. The soil should be well fertilized and worked up thoroughly to a depth of 10 to 12 inches. The bulbs can be set about 12 inches apart and about 4 to 6 inches deep. Mulchings with lawn cuttings will help retain the moisture. Start bulbs in pots indoors in March or April. Do not set out until all danger of frost is over; about June 1st here in the Northwest.

CANNA PRICES, on varieties listed: Each, 15c; dozen, \$1.50.

We expect to have pot-grown Canna plants in late May at 35c each, or \$3.50 a dozen.

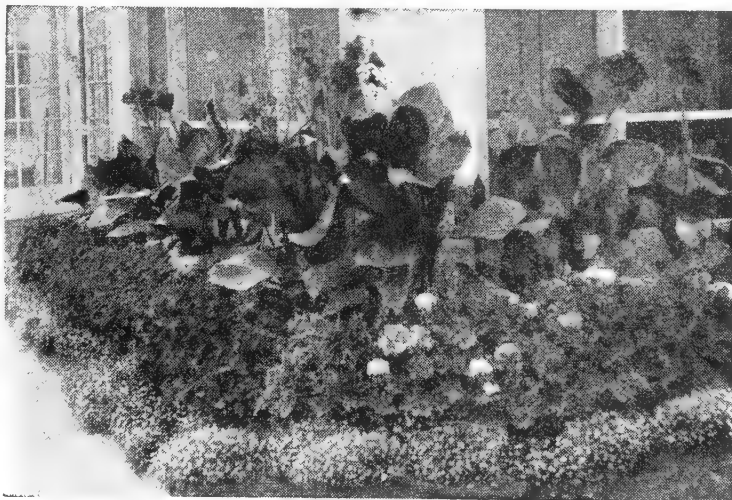
City of Portland. A deep pink which does not fade during the hot weather. Foliage green. A fast grower and heavy bloomer. 5 feet.

Eureka. Soft creamy white. Green foliage. Grows 4 feet high.

King Humbert. Scarlet flowers and bronze leaves. A remarkable Canna. Incomparably beautiful. 4 feet high.

The President. A rich, glowing scarlet, and immense flowers, produced on erect stalks well above the green foliage. Grows 4 feet high.

Yellow King Humbert. Foliage is a very dark green, flowers a deep rich yellow, softly spotted and blotched with bright red. Grows 4 feet high.



GLADIOLI

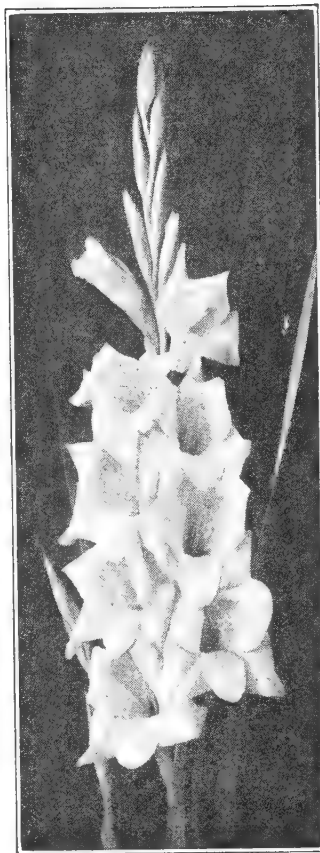
The Gladioli are the most attractive of summer-flowering bulbs. They bloom just when the garden needs brightening up. Their bright spikes help the perennial border especially, which so often lacks color at midsummer before its autumn revival.

CULTURE. The gladiolus thrives in a sunny location. Grows in any good garden soil, but does much better when the latter has been enriched with a fertilizer like Vigoro, Bone Meal or Sheep Manure. If the bulbs are planted at intervals from April to June the blooming period will extend from July until frost. A trench should be dug five inches deep and an inch of sand placed in the bottom to absorb surplus moisture. Set the bulbs 6 to 8 inches apart.

For earliest blossoms, draw 2 inches of soil over the bulbs at first, replacing the rest when the shoots appear. Keep free from weeds and give plenty of water, especially during the blooming period.

Before the ground freezes lift the bulbs. After the tops dry, they should be cut off, the bulbs separated and the small side growth or bulblets removed. The latter may be handled like the big bulbs. Then the bulbs are placed in paper or cloth bags, sawdust or sand to prevent them from becoming too dry. Keep bulbs in a temperature of about 35 degrees to prevent sprouting.

FOR CUT FLOWER USE. The spike should be cut as soon as the first flower opens on the stalk, preferably before the dew is off in the morning but never in the heat of the day. Cut the stem about 9 inches above the ground and with as little foliage as possible. The foliage is needed for the development of the new bulb. Place the cut flowers in a deep vase, with at least 8 inches of water. Remove the faded blossoms, cut a little off the stem and change the water daily. Treated in this way the buds will open perfectly.



Gladiolus
Lovely in the Garden
Fine for Cut Flowers

	Each	Doz.
Aladdin , scarlet salmon, large, ruffled.....	10c	\$1.00
Algonquin , brilliant glowing scarlet, tall.....	10c	1.00
Arethusa , apricot buff, ruffled, extra fine.....	11c	1.10
Bagdad , very large, smoky old rose.....	10c	1.00
Beacon , rose scarlet, cream blotch.....	10c	1.00
Berty Snow , large, rosy, lavender.....	11c	1.10
Betty Nuthall , salmon pink, golden throat.....	10c	1.00
Bit O'Heaven , bright orange, tall.....	10c	1.00
Black Opal , dark glistening red, tall spike.....	11c	1.10
Blue Admiral , one of the best medium blue.....	10c	1.00
Blue Beauty , medium blue, darker edges.....	11c	1.10
Break O'Day , Lafrance pink.....	10c	1.00
Camrose , shell pink, cream throat.....	10c	1.00
Cara Mia , early, deep shrimp pink.....	10c	1.00
Charles Dickens , tall, reddish purple.....	10c	1.00
Colonial Maid , light pinkish lavender.....	10c	1.00

	Each	Doz.
Colossus , immense blooms, light pink.....	12c	1.20
Commander Koehl , large, tall, deep scarlet red..	12c	1.20
Coral Glow , rich coral orange, large.....	15c	1.50
Corona , creamy white, rose picotee edge.....	10c	1.00
Debonair , tall light pink, creamy throat.....	10c	1.00
Donna , orange buff, ruffled.....	11c	1.10
Dr. F. E. Bennett , fiery orange scarlet, tall.....	11c	1.10
Dr. Hoeg , rich red, silvery edge.....	11c	1.10
Dr. Hoody , rich deep lavender, early.....	11c	1.10
Excellence , early, large, light red.....	11c	1.10
Ethel Cavell Cole , early, large, pure pink.....	10c	1.00
Flaming Sword , brick red, med. size flowers....	10c	1.00
Gardenia , beautiful transparent cream.....	11c	1.10
Gloaming , reddish violet purple.....	10c	1.00
Gold Dust , clear deep yellow, tall.....	10c	1.00
Golden Chimes , light yellow, ruffled.....	10c	1.00
Gold Eagle , tall, deep yellow.....	10c	1.00
Golden Dream , tall golden yellow.....	10c	1.00
Isola Bella , orchid pink, ruffled.....	10c	1.00
Jeannie , deep pink, golden throat.....	11c	1.10
King Lear , early, deep purple, ruffled.....	11c	1.10
Leona , large, deep rose red.....	11c	1.10
Maid of Orleans , white with cream throat.....	10c	1.00
Margaret Beaton , clear white with an orange red blotch in throat, tall, large.....	11c	1.10
Margaret Fulton , coral pink, lighter marks....	10c	1.00
Max Reeger , light lavender blue.....	11c	1.10
Minuet , clear light pinkish lavender.....	10c	1.00
Miss Bloomington , tall, light yellow.....	10c	1.00
Morocco , deep velvety maroon.....	10c	1.00
Mother Machree , smoky lavender, tinged cream and gold, large flowers.....	11c	1.10
Myrna , creamy white, ruffled.....	10c	1.00
Orange Queen , large, glowing orange.....	10c	1.00
Paradise , very large, apricot, ruffled.....	10c	1.00
Peggy Lou , light rose, tall.....	10c	1.00
Pelegrina , deep velvety violet blue.....	11c	1.10
Picardy , shrimp pink, very large, ruffled.....	10c	1.00
Polar Ice , early, pure white, large.....	11c	1.10
Prairie Gold , deep yellow, new.....	11c	1.10
Recado , smoky rose ash, flecked scarlet.....	11c	1.10
Red Phipps , light red, fine for cutting.....	11c	1.10
Rewi Fallu , large, deep blood red.....	10c	1.00
Robert Burns , large, deep violet.....	10c	1.00
Rosa Van Lima , light rose, darker in throat....	10c	1.00
Sandra , shrimp pink, amber blotch.....	10c	1.00
Shirley Temple , light cream with deeper cream throat, large heavily ruffled flowers.....	11c	1.10
Smiling Maestro , deep salmon, large.....	10c	1.00
Snow Princess , large, pure white.....	10c	1.00
Takina , very large, light purple.....	10c	1.00
The Mogel , smoky salmon maroon.....	11c	1.10
Vagabond Prince , garnet brown, lighter throat with flame scarlet blotches. Very odd color..	11c	1.10
Valeriana , light red, ruffled, tall spikes.....	10c	1.00
Special Mixture , large sized bulbs.....	8c	85c
Choice Mixture , medium sized bulbs.....	6c	65c

GLADIOLUS, by F. F. Rockwell. It tells how to plant, fertilize, and cultivate; how to harvest and cure; and every other detail needed for success with this popular flower. 45 illustrations, 79 pages, \$1.25, \$1.35, postpaid.

HARDY WATER LILIES

Water Lilies are one of the easiest plants to grow and no flower in the garden is as fascinating and lovely as the water lily. We give full planting instructions with each order.

Amaballis. Flowers deep pink, almost red in center, which lighten to a silver pink on the tips. Blooms are starry in form, slightly cupped. A very desirable and charming lily. Each.....\$1.50

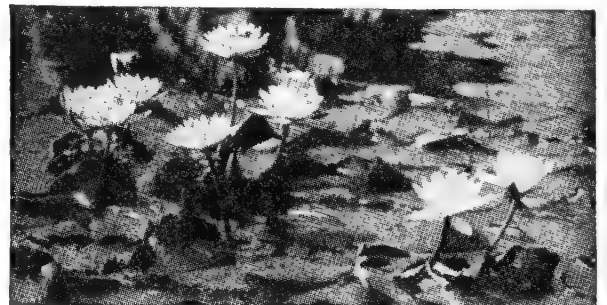
Attraction. A very lovely red; color garnet-red with ruby shading. Each\$1.75

Gloriosa. Beautiful red flowers of perfect form and rather double. Has the fragrance of apple blossoms. Each.....\$2.75

Marliacea Albida. Pure white blooms of large size with yellow stamens. Are quite fragrant. The snowy white lilies bloom continuously throughout the season. A splendid variety. Each..\$1.25

Marliacea Chromatella, Yellow. The most popular of all water lilies. Blooms are a sulphur yellow and start blooming early, producing an endless succession of flowers. Leaves are handsomely spotted with maroon. Each.....\$1.25

Pink Opal. One of the finest pink lilies for cut flowers. The handsome deep pink blooms are of medium size. The flowers stand well above the water. Each....\$1.25



Special Water Lily Fertilizer. We have a special mixture, best suited to make an abundance of strong, vigorous flowers.

DAHLIAS

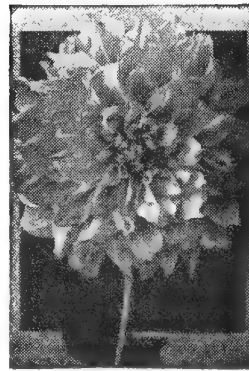
The Dahlia is one of the most popular of garden flowers. Its flowers may be used for garden decorations, house decorations, bouquets, florists and exhibition.

CULTURE. An open, sunny location seems to favor them at all times. Dahlias can be planted any time after danger of frost is over, but do not plant too early. The Dahlia is a fall flower and if planted too early will commence to bloom in the hottest weather, and either blast in the bud or produce one-sided flowers.

Plant tuber 6 inches deep on its side, having sprout or eye facing upwards; cover with about two inches of soil. When sprouts are 6 inches high add more soil, making it level with surface. Cultivation is the principal requirement of the Dahlia—the most important of all operations to insure success.

Abbreviations: (C) Cactus; (S. C.) Semi-Cactus; (F. D.) Formal Decorative; (I.D.) Informal Decorative.

	Each
Amber Queen. (Pompon.) Apricot and amber.....	20c
Amelia Earhart. (C.) Apricot buff with salmon tints..	50c
Autumn Sunset. (D.) Lemon yellow tinted red.....	35c
Barbara Redfern. (I.D.) Large, gold and rose.....	35c
Betty Ann. (Pompon.) Soft clear pink.....	30c
Big Gus. (D.) Giant, orange scarlet.....	25c
Bride's Bouquet. (C.) White.....	25c
Cardinal. (Pompon.) Bright red.....	20c
City of Cleveland. (D.) Large, orange suffused red..	35c
D. M. Moore. (D.) Maroon almost black.....	25c
Dwight Morrow. (D.) Large, dark red.....	50c
Elizabeth Slocombe. (D.) Red purple.....	25c
Elleanor Radell. (D.) Large, rose pink.....	35c
Ellenor Vanderveer. (D.) Glowing rose pink.....	25c
E. T. Bedford. (D.) Purple tinged silver.....	25c
Fashion. (Pompon.) Bronze.....	20c
Francois Larocco. (D.) Large, canary yellow.....	25c
Golden Queen. (Pompon.) Rich deep yellow.....	20c



Dahlia

Hunt's Velvet Wonder. (D.) Large, purple.....	40c
Jane Cowl. (I.D.) Bronzy buff and old gold.....	35c
Jersey's Mammoth. (D.) Giant, mahogany and gold.....	35c
Jersey's Sovereign. (D.) Salmon orange.....	45c
Jersey's White Beauty. (D.) Large, pure white.....	45c
J. H. Jackson. (C.) Maroon.....	25c
Jimmy Foxx. (D.) Large, coppery red tinged henna.....	45c
Laura Morris. (D.) Giant, deep yellow.....	30c
Mary Munns. (Pompon.) Fuchsia red, orchid sheen.....	20c
Minamoto. (C.) Scarlet.....	25c
Miss Oakland. (D.) Large, pure white.....	45c
Miriam Hopkins. (C.) Large, bronzy yellow.....	50c
Monmouth Champion. (D.) Large, flame red.....	40c
Mrs. Carl Salbach. (D.) Lavender pink.....	25c
Mrs. Geo. Le Boutiller. (I.D.) Deep rich carmine red. Immense size.....	40c
Mrs. I. de Ver Warner. (D.) Orchid lavender.....	25c
Omar Khayyam. (D.) Large, red and orange.....	40c
Pan. (D.) Vivid scarlet.....	35c
Phyllis. (Pompon.) Purple.....	20c
Purity. (D.) Pure white.....	25c
Robert Treat. (D.) American Beauty red.....	30c
Rosa Nell. (D.) Deep rose pink.....	25c
Rose Fallon. (D.) Old gold. Excellent cut flower.....	30c
Sagamore. (D.) Apricot buff.....	40c
Sanhican's Bluebird. (D.) Bright violet blue.....	25c
Satan. (C.) Large, flaming red.....	45c
Silver Sheen. (D.) Lavender.....	30c
Snowlad. (Pompon.) Pure white.....	30c
Snowdrift. (D.) Large, pure white.....	30c
The Commodore. (D.) Large, canary yellow.....	30c
The Fireman. (D.) Large, red and gold.....	45c
Thomas A. Edison. (D.) Royal purple.....	40c
Victory. (D.) Large, salmon pink.....	50c

PEONIES

The Peony endures the most intense cold without injury, easily grown, and showiest of the perennial flowering plants.

Peonies may be planted in the spring during the month of April and the early part of May, but we recommend planting in September. Work the soil thoroughly to a depth of 8 or 10 inches, applying at the same time a generous amount of Vigoro or bone meal fertilizer, mixed well into the soil. Plant root in this prepared soil so that the crown will be about 1 inch below the surface. Press the soil firmly around the roots.

Peonies should not be planted any closer than 3 feet apart and should not be close to trees. Peonies do best in a sunny location.

The following selected varieties we offer for spring or September delivery. Large 3 to 5 eye divisions.



Peonies—As Beautiful as the Rose—Hardy.

Reds

	Each
Adolph Rosseau. 8.5. A dark rich red, one of the finest.....	\$1.00
Felix Crousse. 8.4. A very brilliant rose-red, globular, bomb shape, fragrant with sturdy growth. Blooms mid-season.....	1.00
Karl Rosenfeld. 8.8. A brilliant and striking red, coming into bloom in early midseason. Flowers very large, semi-rose type, slightly fragrant.....	1.00

Whites

	Each
Couronne d'Or. 8.1. Milk white color, with ring of yellow stamens around a tuft of center petals, tipped carmine. Very fragrant. Flowers late....	\$1.00
Festivia Maxima. 9.3. An early white with broad guard petals surrounding a compact inner mass of rich white petals flecked crimson. A fine garden and cut-flower variety.....	1.00
Frances Willard. 9.1. This variety is listed among the world's 26 most beautiful peonies. It opens an exquisite bluish white, with an occasional carmine touch, changing on the lawn to pure white. Late..	1.25
Mme. Emile Lemoine. 8.9. Glossy white, overlaid with a sheen of delicate satiny pink, covered with tiny dots of deeper pink. A rare, beautiful peony; strong grower, free bloomer.....	1.00

Pinks

Claire Dubois. 8.7. A late bloomer of immense globular form of clear violet-rose color, tipped silvery white. Similar to Mons. Jules Elie.....	1.00
Eugene Verdier. 8.6. A fine peony coming into bloom early mid-season. Opens Hydrangea-pink with center flushed crimson. Fragrant.....	1.00
Jeannot. 9.2. A late delicate lavender-pink with salmon shadings at the base of petals.....	1.00
Judge Berry. 8.6. A fine delicate pink coming into bloom early.....	1.00
La France. 9.0 (for fall delivery). An apple-blossom-pink with splashes of crimson on guard petals. Late	1.00
Marie Crousse. 8.9. A delicate shell pink bordering on salmon. Mid-season to late.....	1.00
Milton Hill. 9.0 (for fall delivery). A beautiful flower of delicate salmon-pink. Blooms late.....	1.00
Mons. Jules Elie. 9.2. An immense self-colored flesh-pink, shading a trifle deeper toward the base of petals. One of the largest, handsomest.....	1.00
President Taft. 8.7. One of the finest peonies. A strong and vigorous bloomer of light pink flowers, center flecked with crimson. An excellent cut-flower variety. Mid-season.....	1.00
Rosa Bonheur. 9.0. A late mid-season of delicate pink, slightly flecked crimson.....	1.00
Sarah Bernhardt. 9.0. The color is a true apple-blossom-pink with each petal silver tipped. Another fine peony that is always conspicuous in the show room. Blooms late mid-season, Fragrant.....	1.00
Solange. 9.7. A deep orange-salmon, overlaid with a delicate, tender rich cream. Mid-season.....	1.25
Walter Faxon. 9.3 (for fall delivery). The most striking of all pinks, color salmon rose. A beauty.....	1.25

ROSES

See inside back cover page for Roses in color. Secure and plant Roses in early April for best results.

Brownell Everblooming Roses

Sub-zero hybrid teas from hardier species that bloom all summer, of great sturdiness and vigor, to survive sub-zero winters. Outstanding in every way.

ANNE VANDERBILT. Exquisite coppery orange, semi-double, very brilliant, fragrant. Each, \$1.75.

BREAK O'DAY. Large double flowers orange-apricot, shaded with lighter flesh tints; very fragrant. It is exceptional for its strong growth and for its huge clusters of flowers. Each, \$1.75.

LILY PONS. Long pointed buds open to large, very double, fragrant flowers; the center is deep yellow shading out to palest yellow and white. This Rose is vigorous, and a free bloomer. Each, \$1.75.

"NEARLY WILD." A hybrid rose of the Floribunda type. Flowers are pink, in clusters, suggestive of wild roses. Blooms throughout the growing season. Highly recommended by rose experts. Each, \$1.75.

PINK PRINCESS. We think this is the best of all Brownell roses. The deep rose-pink buds are borne on fairly long stems. Heavy bloomer. Each, \$1.75.

SHADES OF AUTUMN. (Pat No. 542.) An abundant and joyous expression of bi-colored beauty. Each, \$1.75.

V FOR VICTORY. Most beautiful large, double, yellow, fragrant Roses; constantly blooming. Each, \$1.75.

Hybrid Perpetual Roses

Hardier than hybrid teas, not as hardy as sub-zero hybrid teas. Bloom in late summer and fall, as well as June, although not as fully as the hybrid teas.

FRAU KARL DRUSCHKI. Very large pure white of perfect form, excellent texture and keeping qualities. Considered the best white. Each, \$1.50.

PAUL NEYRON. This old time rose is still a big favorite. Deep rose, very fragrant. Each, \$1.50.

Shrub and Floribunda Roses

Only Floribundas need winter protection. Can be planted in shrubby borders, separate beds, groups, or as individual specimens.

AGNES RUGOSA. A free-flowering, fragrant, golden-amber rose. Originated in Canada. Each, \$1.50.

DONALD PRIOR. (Floribunda.) Has large bright scarlet, semi-double fragrant flowers all summer. Each, \$1.25.

HANSA RUGOSA. A showy hybrid with abundant large reddish violet flowers. Each, \$1.25.

RED GROOTENDORST. The bright red double flowers are freely and continuously produced in large clusters from early June until late fall. It is one of the most suitable plants for specimen plantings. Each, \$1.50.

RED LAFAYETTE. (Floribunda.) Vigorous and persistent bloomer. Flowers deep red, double, loose-petalled. One of the best for show or cutting. Each, \$1.50.

SIR THOMAS LIPTON. The snowy white double flowers bloom through the summer and fall. Each, \$1.50.

Everblooming Hybrid Tea Roses

From early June until frost these roses will bloom constantly, showing often 20 blooms and buds at a time.

AMI QUINARD. Maroon-red semi-double flowers. A vigorous bloomer. The best "black" rose. Each, \$1.50.

BETTY UPRICHARD. One of those delightfully contrasting types; the outside a blend of deep toned carmine with coppery orange; the interior being mostly a delicate salmon-pink. Each, \$1.50.

CALEDONIA. A fine white; long buds openings to large, very double flowers. Long lasting. Each, \$1.50.

CHARLOTTE ARMSTRONG. Long slender blood-red buds open slowly. Very heavy bloomer. Each, \$1.50.

CHAS. K. DOUGLAS. A flaming scarlet rose flushed with velvety crimson. A vigorous and heavy bloomer of fragrant flowers. Each, \$1.50.

CHRISTOPHER STONE. Large, semi-double vivid scarlet flowers overlaid with velvety crimson. Has a delightful old rose fragrance. Of vigorous, upright growth with bright green foliage. Each, \$1.50.

CONDESA de SASTAGO. A fine double rose with buds golden yellow, beautifully striped with brilliant capucine red. The open, spicy scented blooms are of similar color. Strong grower and a perfect beauty. Each, \$1.50.

EDITH NELLIE PERKINS. Orient-red, shaded cerise-orange, inside salmon-pink. Fragrant. Each, \$1.50.

EDITOR McFARLAND. Beautiful deep pink blooms of perfect form. Last long when cut. Each, \$1.50.

ETOILE de HOLLANDE. Brilliant red blooms, almost unfading. Very fragrant. Free flowering. Each, \$1.50.

GOLDEN TALISMAN. A sport of Talisman. The golden yellow flowers are fragrant, free flowering. Each, \$1.50.

GRENOBLE. The scarlet-crimson flowers are large and one of the best for cutting. The foliage is luxuriant. A hardy rose you will like. Each, \$1.50.

JOANNA HILL. The pointed buds open to large, full, semi-double, long lasting, moderately fragrant flowers of a clear yellow with orange-yellow heart. Borne on long strong stems; a profuse bloomer. Each, \$1.75.

K. A. VIKTORIA. Creamy-white blooms tinted in center with lemon. Very fragrant and beautifully formed flowers on long graceful stems. Each, \$1.50.

LADY HILLINGDON. A beautiful coppery shade of apricot-yellow, a strong, free flowering, vigorous grower. A very popular rose. Each, \$1.50.

MARGARET McBRIDE. Deep salmon-pink, almost red-dish by fall. A lovely rose. 1943 A.A.R.S. Each, \$1.75.

MME. JULES BOUCHE. While not a pure white, it is to all intents white and without question the best white everblooming bedding rose yet introduced. The flowers are large, quite double and of splendid form. It is fragrant, a vigorous grower. Each, \$1.50.

MIRANDY. (Plant Pat. 632.) Large long pointed red buds; very double, continuous bloomer. Each, \$2.00.

MME. JOS. PERRAUD. Long pointed buds open glowing yellow, turning nasturtium-buff. Fragrant. Each, \$1.50.

MRS. CHAS. BELL. Lovely shell-pink buds and blooms of fine, globular form with shadings of soft salmon. Fragrant. Each, \$1.50.

PEACE. (Plant Pat. 591.) Flowers open golden-yellow etched with pink, changing to canary-yellow, pale golden, then to cream, in order. A marvelous rose. A.A.R.S. for 1946. (See back inside cover.) Each, \$2.50.

PINK RADIANCE. A brilliant carmine-pink, with salmon-pink and yellow shadings. Each, \$1.50.

POINSETTIA. Here is a grand rose, fire-red with long, pointed, perfect buds. Fine for cutting. Blooms heavily all season. Each, \$1.50.

PRESIDENT HERBERT HOOVER. Large flowers of a charming combination of cerise-pink, flame, scarlet, and yellow, with broad, thick petals; very fragrant. The clean, handsome foliage is an added attraction. Each, \$1.50.

RED RADIANCE. A counterpart of Pink Radiance from which it is a "sport," possessing all the good traits of that valuable variety but differing in color, which is a bright cerise-red. Each, \$1.50.

RUBIAYAT. Received 1947 A.A.R.S. award. Bright red, long pointed buds; continuous bloomer. Each, \$2.00.

SOEUR THERESE. (Sister Therese.) Long-pointed buds are chrome-yellow, heavily marked with carmine; the open flower is rich yellow and holds its color well. Blooms freely on splendid cutting stems. Each, \$1.50.

SUNBURST. Rich yellow flowers, shaded coppery-orange at the center. Fragrant and attractive. Each, \$1.50.

TALISMAN. Brilliant gold, cerise, scarlet and pure yellow in a beautiful combination of color. Each, \$1.50.

Climbing Roses

BLAZE. A vigorous climber, similar to Paul's Scarlet, but its crimson flowers bloom on and off all summer. Each, \$1.50.

BREAK O'DAY CLIMBER (Brownell). Very vigorous everblooming, climbing sport of Break O'Day. Flowers orange to apricot. Each, \$2.25.

CLIMBING AMERICAN BEAUTY. Rosy crimson flowers 3-4 inches across, produced freely in June and occasionally till frost. Very fragrant. Each, \$1.50.

COPPER GLOW (Brownell). Deep coppery-orange, delightfully spicy fragrance. Each, \$1.75.

GOLDEN GLOW (Brownell, Pat. No. 263). This is a spectrum yellow, fragrant with abundant mass color display. Each, \$1.75.

ORANGE EVERGLOW. (Brownell.) A new hardy everblooming climber of dazzling coppery-orange. A fragrant and vigorous bloomer. Each, \$2.25.

PAUL'S SCARLET CLIMBER. Intense scarlet roses of excellent shape, borne in clusters. Flowers are of large size and similar to tea roses. Each, \$1.50.

Please Note

Nursery stock after leaving our premises is beyond our control and we cannot guarantee it to grow. If, however, we are notified before July 1st, that any such stock purchased from us at the regular catalog price during the month of April or May of this year did not grow, we will replace same next spring at one-half the original cost. This does not apply to Nursery Stock purchased below quoted prices.

In the shrubs, fruit trees, berry bushes, etc., listed in the following pages, we are offering only those varieties that are especially hardy for the Northwest. Our stock comes from state inspected nurseries for your protection. As with our seeds, we take special pains in getting the very best, strong, healthy stock obtainable. Plant shrubbery as early in the spring as you can as conditions then are ideal in establishing a good root growth which is very important in transplanting.

Shrubs

ALMOND, PINK FLOWERING. Rose-like pink flowers in early spring. Should be planted deeply to prevent sprouting of the plum root on which for hardiness, this variety must be grown. One of the most beautiful early flowering shrubs. Each, \$1.00.



Flowering Almond

shaped flowers in June. A fine shrub. Each, \$1.25.

BUTTERFLY BUSH (*Buddleia magnifica*). A shrubby perennial sometimes called summer lilac. Blossoms borne in long racemes are rosy lilac in color with orange centers. A fairly rich soil, sunny position and abundance of water are essential for the successful culture of the *Buddleias*. New growth starts from roots each year. Grows 3 to 4 feet high. Each, 85c.

COTONEASTER, PEKING (*Cotoneaster acutifolia*). An attractive, beautifully formed shrub with thick, glossy leaves, turning to red in the fall. Small white flowers in early summer followed by large black berries which remain on the bush nearly all winter. Perfectly hardy. See Hedge Plants also. 2-3 ft. size. Each, \$1.00.

CRAB, BECHTEL'S DOUBLE FLOWERING. Covered in spring with fragrant double rose-like pink flowers. A fine small lawn tree. Grows 15 feet tall. Each, \$1.50.

CURRANT, ALPINE (*Ribes alpinum*). A very dense growing shrub with fine dark green leaves. Height 3 to 4 feet. A very good plant where the soil is well drained. See Hedge Plants also. 2 to 3 ft. size. Each, \$1.25.

CURRANT, YELLOW FLOWERING (*Ribes aureum*). One of the earliest shrubs to bloom in the spring. Covered with bright yellow flowers with clove fragrance. Bush grows 3 to 5 feet high. Each, \$1.00.

BARBERRY, (Berberis thunbergi). A low growing bush with small leaves beautifully colored in fall. The bright red berries remain on the branches all winter. Each, 75c.

BARBERRY, RED LEAVED. Leaves and plant grow slightly larger than the common barberry. Leaves have a lovely red color. Each, \$1.00.

BEAUTY BUSH. A very handsome hardy shrub, growing 6 to 8 feet high resembling the *Weigelia* and *Honeysuckle*, bearing an amazing lot of pale pink bell-shaped flowers in June. A fine shrub. Each, \$1.25.

DOGWOOD, RED TWIGGED (*Cornus siberica*). Grows 8 to 10 feet high, with clusters of white flowers, succeeded by ornamental berries in the fall. Stem and branches turn a blood red in the winter. Each, \$1.00.

DOGWOOD VARIEGATED (*Cornus mas elegantissima*). A variety similar to the Red Dogwood except that the leaves are green with a white stripe through the center. A desirable shrub for group planting. Each, \$1.50.

ELDER, GOLDEN (*Sambucus aurea*). A shrub of medium height with yellow foliage and white flowers. Valuable for group planting because of its contrast in color. Grows 7 feet tall. Each, \$1.00.

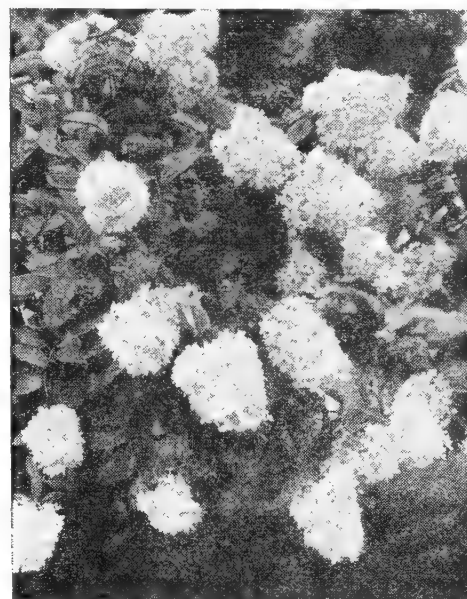
FLOWERING PLUM (*Prunus triloba* var. *plena*). A showy and interesting shrub, bearing in the spring, on its long slender branches a wealth of large pink double flowers. One of the finest spring blooming shrubs. Grows 5 feet high. Each, \$2.00.

FORSYTHIA SUSPENS A FORTUNEI (Golden Bell). An upright growing shrub with finely arching branches and golden yellow flowers borne in profusion in early spring before leaves appear. Grows 5 ft. high. Each, \$1.00.

HIGH BUSH CRANBERRY (*V. opulus*). A very ornamental shrub with white flowers in late spring, followed in autumn by bright scarlet edible berries which remain until early winter. Grows 8 feet tall. Each, \$1.25.

HONEYSUCKLE. (*Zabeli*). One of the best honeysuckle varieties, producing dark red flowers in May, followed by bright red berries. A vigorous and hardy shrub, growing to a height of 8 to 10 ft. Each, 75c.

HYDRANGEA SNOWBALL. (*H. arborescens grandiflora*). Heavy snowball-like flowers of white from late June to frost. Should have plenty of water. Will stand partial shade. Often used for solid low borders. Grows 3 to 4 feet high. Each, \$1.50.



Hydrangea Paniculata Grandiflora

HYDRANGEA (*Paniculata grandiflora*). One of the showiest of autumn shrubs bearing conical flower heads of creamy white which later change to pleasing shades of red and pink in August and September. Always in demand for home yard planting because of the large flowers when most other shrubs are out of bloom. Grows 4 feet high. Each, \$1.50.

LILAC, Common Purple. These are the old-fashioned Lilacs. Very hardy. 18 to 24-in. size. Each, 60c.

LILAC, PERSIAN (*Syringa persica*). A beautiful shrub with slender, arching branches and narrow leaves. Pale purple flowers in May. Grows 7 feet. Each, \$1.40.

LILAC, CHAS. JOLY. (French.) A very attractive shrub, producing double, dark purple-red colored blossoms. Each, \$1.75.

LILAC, CHAS. X. (French.) One of the best of all French Lilacs. Single flowers of reddish-purple of medium size bloom freely. Each, \$1.75.

LILAC, MME. LEMOINE. (French.) A very popular white. Flowers large, double and free blooming. Each, \$1.75.

LILAC, PRESIDENT GREVY. (French.) A fine variety producing large, full clusters of very large, double, pale blue flowers. Each, \$1.75.

MAIL ORDERS

MAIL ORDERS FOR NURSERY STOCK ARE SENT TO MINNESOTA, IOWA, NORTH and SOUTH DAKOTA and WISCONSIN POINTS ONLY. All prices are F. O. B. St. Paul. If wanted by Parcel Post, add 20% for postage and packing with a minimum of 25c; if by Express or Freight, add 10% for packing.

MOCK ORANGE (*Coronarius*). Orange scented, creamy white flowers in May and June. It is a strong growing shrub and like all Mock Orange is one of the best shrubs for situations which are partially shaded though preferring sun. Grows 7 feet tall. Each, 75c.

MOCK ORANGE, GOLDEN (*Philadelphus aurea*). A compact shrub of an ultimate height of 4 feet with very brilliant yellow foliage. It is a mass of white flowers in May and June. Each \$1.75.

MOCK ORANGE (*Bouquet Blanc*). A fine variety bearing large fragrant flowers. A good shrub for house foundation planting. Grows 4 feet high. Each, \$1.00.

MOCK ORANGE (*Virginal*). A magnificent new variety. Large, fragrant, pure white flowers bloom over a very long period. Grows 4 to 5 feet high. Each, \$1.25.

"MINNESOTA SNOWFLAKE" (Pat. No. 538)

New Double Flowering Mock Orange

This Mock Orange is truly outstanding. It has all-double white, fragrant flowers that bloom profusely. Grows to a height of 10 to 12 ft. Thrives in sun or partial shade. A fast grower and very hardy. 18—24 in. size, \$1.25 each; 2 to 3 ft. size, \$1.50 each; 3 to 4 ft. size, \$2.00 each.

NINEBARK, DWARF (*Opulifolius nana*). A very compact low growing bush, 3 to 4 feet high, bearing clusters of white flowers in spring, followed by red berries. Foliage very attractive. Each, \$1.00.

PLUM, CISTENA (*Prunus Cistena*). A very compact shrub with bright red foliage. Grows 6 to 8 ft. Each, \$1.50.

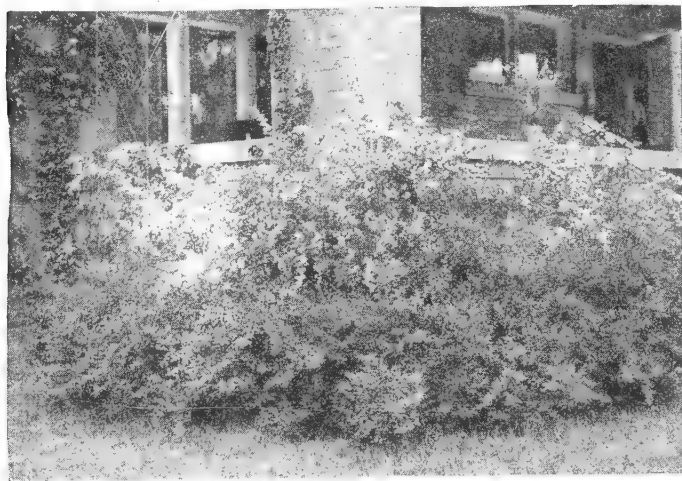
POTENTILLA FRUTICOSA. A compact and graceful small bush of the rose family, 2 to 3 ft. high, upright in growth with feather-shaped leaves. Yellow flowers bloom throughout the summer. Likes sun. Each, \$1.00.

RUSSIAN OLIVE (*Elaeagnus angustifolia*). A large shrub with attractive silver gray foliage. Desirable in large group plantings. Each, 75c.

SNOWBALL (*Viburnum opulus sterile*). A popular shrub attaining a height of 6 to 8 feet and having large, clusters of white flowers in May and June. Each, \$1.25.

SNOWBERRY, RED (*Coral Berry*). A native shrub that is hardy and easy to grow where other plants fail. Red to purplish red berries in late summer. Stands sun or shade and poor soil. Prune in early spring. Grows 2 to 3 feet high. Each, 75c.

SNOWBERRY, WHITE (*Symphoricarpos racemosus*). A compact, graceful shrub with slender arching branches. The pink flowers are succeeded by large white berries in September that persist well into the winter. Stands shade well. Grows 4 to 5 ft. high. Each, 75c.



The Low Growing Spirea Anthony Waterer in front of Spirea Van Houttei, make a Fine Foundation Planting

SPIREA, ANTHONY WATERER. Brilliant rosy carmine flowers. Blooms all summer. Always blooms the first season. Makes a fine color combination planted with *Hydrangea arborescens*. Grows 2 feet high. Each, \$1.00.

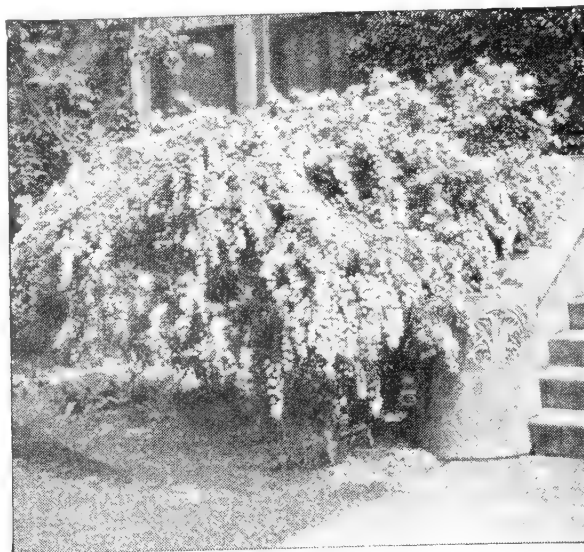
SPIREA AUREA (*Golden Spirea*). Growth, upright, attaining 5 to 6 feet, although the heavy white flower umbels in June make the branches droop. Foliage yellow changing to golden bronze in the fall. Each, \$1.00.

SPIREA BILLARDI (*Pink Summer Spirea*). Pink flowers in terminal spikes during July and August. Suitable for moist situations. Grows 5 feet high. Each, \$1.00.

SPIREA FROEBELI. Similar to Anthony Waterer, but a foot taller, with broader and darker leaves, which are a beautiful salmony bronze red in spring, reverting to similar shade in fall. Has reddish pink flowers in dense corymbs during July and August. Each, \$1.00.

SPIREA SORBIFOLIA (*Plume Spirea*). Foliage resembles a Mountain Ash. Long spikes of white flowers in July. Stands sun or partial shade. 5 feet. Each, \$1.00.

SPIREA VAN HOUTTEI (*Bridal Wreath*). A very hardy and effective shrub, with graceful arching branches well covered in late May with a profusion of large pure white flower clusters. The most popular and most planted of all shrubs. Will grow in almost any location. Grows 5 to 6 feet high. 2 to 3-foot size, 60c; 10 for \$5.40; 3 to 4-foot size, 85c each; 10 for \$7.65.



Spirea Van Houttei Makes a Beautiful Bush

TAMARIX. Very fine foliage producing a fern-like effect. Attains a height of 6 to 8 feet. Pink flowers July to September. Each, \$1.00.

WEIGELIA EVA RATHKE. Large crimson flowers. Blooms throughout the summer and autumn. Needs winter protection. Grows 4 feet high. Each, \$1.50.

WEIGELIA ROSEA. Has coarse but gracefully drooping branches with pink flowers. If pruned after blooming will flower off and on all summer. Grows 6 feet high. Each, \$1.00.

Hardy Climbers

BITTERSWEET (*Celastrus scandens*). A native vine in Minnesota. Produces an abundance of bright red berries that are used for decorative purposes in the winter. Very hardy. Good for covering trellises, etc. Each, 75c.

BOSTON IVY (*Ampelopsis Veitchii*). The grandest hardy climbing vine for covering houses, churches, schools, etc. Its glossy, ivy leaves make a rapid growth. The tendrils cling firmly to the smoothest surface of rock or brick. Each, \$1.00.

DUTCHMAN'S PIPE. A hardy vine of rapid growth. Has large, heart shaped leaves and in summer, purplish blossoms, resembling a miniature pipe. Very disease resistant. A fine vine for shading porches. Each, \$1.25.

ENGELMAN'S IVY (*Ampelopsis engelmanni*). Leaves are larger and not as dainty as the Boston Ivy. This ivy grows very fast and clings to brick, stone or plaster. Perfectly hardy in Minnesota. Each, 50c.

MATRIMONY VINE. A trailing vine for covering walls and slopes. Has small purple flowers followed by red berries. Each, 75c.

SCARLET TRUMPET HONEYSUCKLE (*Lonicera sempervirens*). Trumpet-shaped flowers of bright scarlet. Blooms more or less all summer. Each, 75c.

WISTERIA (*Sinensis*). A fast growing vine, attaining a height of 20 to 30 feet. Foliage is grayish green. Produces small purple flowers in dense drooping clusters, during May and June. Each, 85c.

Clematis

No other climbing plant equals in attractiveness the beautiful flowering Clematis. Plant with crowns 3 inches below surface of soil. Provide good drainage.

JACKMANI. Broad-petaled flowers of violet-purple. The most popular and hardiest of the blue-flowering Clematis. Potted plant, each, \$1.25.

MME. EDW. ANDRE. Very lovely velvety red, free-flowering and continuous bloomer. Potted plant, \$1.25.

PANICULATA. This strong, hardy, rapid grower with its small dense foliage and very fragrant white flowers blooms in great profusion in late July or early August. A lovely Clematis. 2 year, potted plant, \$1.25.

FERTILIZED EARTH

This is rich soil, enriched with fertilizer, and prepared for house plants, window boxes, etc. Is mixed and cured to give the best results to house plants and to prevent crusting which stunts or kills so many house plants, planted in ordinary soil.

10 lbs. (enough for 6—5-inch pots).....\$0.25
100 lbs. 2.00

Ornamental and Shade Trees

State Inspected For Your Protection

AMERICAN ELM. A splendid tree for boulevard planting or a yard. Graceful and of upright habit. Grows 80 to 100 feet high. 6-8 ft. size, \$1.50; 1 1/4 to 1 1/2 inch diameter, \$4.00; 2-inch caliper trees, each, \$5.00.

BASSWOOD OR LINDEN. Has large heart-shaped leaves and fragrant white blossoms. A fine lawn tree. Hardy and fast grower. 6 to 8-foot trees, each, \$1.50.

BIRCH, CUT-LEAF WEEPING. A striking, erect tree with slender drooping branches and finely cut leaves. The bark is white like the ordinary native Birch. 6 to 8-ft. size, each, \$5.00.

BIRCH, WHITE. A medium sized tree native to Minnesota. The white bark is enchanting the year around. 6 to 8 feet. Each, \$2.00.

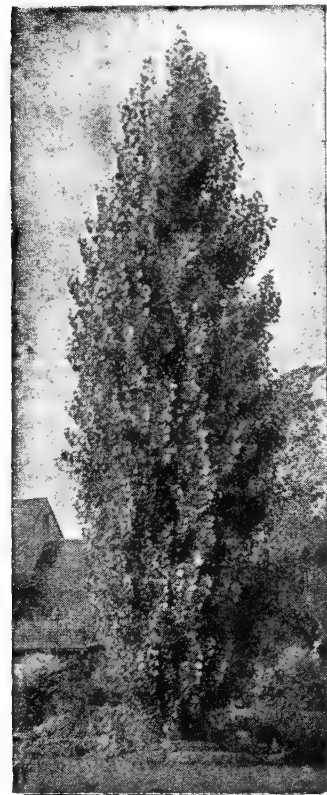
CHINESE ELM. This shade tree is very popular on account of its rapid growth, resistance to disease and ability to thrive in almost any situation. A tree of rare beauty. Grows 75 feet high, 6 to 8 ft., \$1.50; 8 to 10 ft., each, \$2.50.

CRAB, DOLGO. A beautiful ornamental tree, absolutely hardy. Produces an abundance of small red crabs. The trees are free from blight and very attractive with a mass of red fruit. Each, \$2.00.

CRAB, HOPA. A very ornamental tree. Red blossoms completely cover the tree in early spring. Fruit is small, red inside and out. Each, \$2.00.

MAPLE, SUGAR OR HARD. A tall and symmetrical tree, hard wooded, long lived and extremely hardy. The bright green leaves turn to brilliant colors of scarlet and yellow in the fall. Growth is medium fast. 6 to 8 ft. size. Each, \$3.50.

MAPLE, SCHWEDLER'S. A very ornamental shade tree. The foliage is dark red in the spring and gradually softening to bronze, then turns to green later in the season. 6 to 8-foot trees. Each, \$5.50.



Lombardy Poplar

MAPLE, SOFT OR SILVER. A very rapid growing tree. The finely cut leaves show their silvery sides when turned by breezes. Grows 60 feet, 6 to 8 feet. Each, \$1.25.

MOUNTAIN ASH. (European.) The combination of foliage and clustered fruits makes this a very beautiful lawn tree. Bright red berries, white flowers. Used as specimen on the lawn or as an accent in the border. Grows 30 feet high. 6 to 8-foot trees. Each, \$2.50.

POPLAR, BOLLEANA. A tall, slender tree. Leaves are dark green on the upper surface and white beneath. The bark is silvery gray. Grows 80 feet high. 6 to 8-foot trees. Each, \$2.00.

POPLAR, LOMBARDY. Very similar to the Bolleana except in color of leaf and bark which is green. Grows 100 feet tall. 6 to 8-foot trees. Each, \$1.25; 10 for \$11.25.

RUSSIAN MULBERRY. A low growing very bushy topped small tree. Leaves are small and many lobed. The edible fruit is sweet and resembles a blackberry. 5 to 6 foot trees. Each, \$1.35.

WALNUT, BLACK. A majestic tree that not only bears choice nuts, but is also a grand shade tree of fine form. A slow grower. Will attain a height of 100 to 150 feet. 6 to 8 ft. trees. Each, \$3.00.

WILLOW, NIOBE WEEPING (*Salix alba*). A small tree, with graceful, golden, drooping branches. It is one of the best of the Weeping Willows. 6 to 8-foot size. Each, \$2.75.

Seedling Windbreak Trees

Deciduous—Per 100

Ash, Green—12-18 in., \$3.25; 18-24 in., \$4.25.
Caragana—6-12 in., \$4.55; 18-24 in., \$6.75.
Elm, American—18-24 in., \$4.25; 2-3 ft., \$5.25.
Elm, Chinese—12-18 in., \$3.25; 2-3 ft., \$5.25.
Olive, Russian—12-18 in., \$5.50; 18-24 in., \$7.50.
Poplar, Lombardy—18-24 in., \$5.85; 2-3 ft., \$7.15.
3 to 4 ft., \$9.15.

Evergreens—Per 100

Norway Pine—6-9 in., \$15.40 (trans).
Pine, White—4-6 in., \$4.90; 8-10 in., \$19.25.
Spruce, Black Hill—4-6 in., \$7.00; 6-8 in., \$8.85.
Spruce, Colorado—4-6 in., \$6.75.
Spruce, White—6-9 in., \$18.50; 9-12 in., \$24.75 (trans).
Add 25c for postage and packing on Mail Orders within the 3rd zone, for each 100 trees.

Hedges

State Inspected For Your Protection

Plant living, lasting fences. Walls and fences are generally expensive but a fine green hedge may be had at a small cost and will add much to the beauty of the home, both summer and winter.

ALPINE CURRANT. A very dense-growing hedge with fine dark green leaves. Will grow to a height of 3 or 4 feet. The yellow flowers which open in May are very fragrant. Very desirable where the soil is somewhat dry. 12 to 15 in., each, 60c; 10, \$5.40; 100, \$40.00.

BARBERRY (*Berberis Thunbergii*). Dwarf hedge, attractive and effective. 18 to 24 in. Each, 55c; 10, \$4.95; 100, \$45.00.

BUCKTHORN. Best sheared low hedge, or free growing tall hedge. May be trained from 18 inches up. Very hardy. 2 to 3-ft. size, each, 60c; 10, \$5.40; 100, \$40.00.

CARAGANA ARBORESCENS (Siberian pea tree). An excellent hedge plant. Especially suited to light soils and sunny locations. The beauty of its foliage makes it desirable for planting in groups or in masses behind other low growing shrubs. Bright green pea-like leaves. Grows 8 to 12 feet high. 2 to 3 ft. size. Each, 35c; 10, \$3.15; 100, \$25.00.



A Hedge Adds Much to the Beauty of the Home Surroundings.

COTONEASTER. When a hedge of medium height is wanted this is one of the best to plant. The leaves are a rich green and very glossy which adds to the beauty of the plant. 18 to 24 in., each, 60c; 10, \$5.40; 100, \$40.00; 2 to 3-ft. size, each, 70c; 10, \$6.30; 100, \$50.00.

LILAC, Common Purple. Heavy rooted, 18 to 24-in. plants. Each, 60c; 10, \$5.40; 100, \$40.00.

Asparagus Roots

In preparing the bed for asparagus roots, the soil should be worked up at least 12 inches deep and a very heavy application of well-rotted manure or commercial fertilizer should be given. Make furrows ten inches deep and spread roots 18 inches apart in row and cover with two inches of soil, gradually filling as shoots appear until surface is level. Do not cut any later than June 20th until the third or fourth year.

MARY WASHINGTON.

1 yr. old. Doz., 90c; 25, \$1.65; 100, \$3.75; 250, \$8.00.
2 yr. old. Doz., \$1.25; 25, \$1.95; 100, \$4.75; 250, \$11.00.

PARADISE.

1 yr. old. Doz., 90c; 25, \$1.65; 100, \$3.75; 250, \$8.00.

Postage 10c for first doz.; 5c for each additional doz.

Rhubarb Roots

The planting of Rhubarb roots instead of seed saves both time and labor, especially for the home garden. Do not pull the stocks the first year after planting, except the blossom stock. These should always be kept down, as they take the strength from the rest of the plant.

Medium size roots. Each, 25c; doz., \$2.50.

Large size roots. Each, 40c; doz., \$4.00.

Add 20c for mailing within the 3rd zone for one root; 10c for each additional root.

MacDonald Red. This is a great improvement over the old standard variety. Quality is tops with a fruity flavor and much sweeter than the old kind. A quick grower and heavy yielder. Each, 60c.

Chipman's Canada Red. Another new hardy sort, that is deep red all the way through. Sweet and fine flavored. Each, 90c.

Apple Trees (5 to 6 Ft.)

BEACON. Developed by the Minnesota Agricultural University. A deep red apple of good size and quality that ripens early. Each, \$1.50; 10 for \$14.00.

CORTLAND. A McIntosh seedling of the same high quality but is a better keeper, also fruit hangs on tree better. Each, \$1.50; 10 for \$14.00.

DELICIOUS. A very high quality apple suitable for southern Minnesota. Each, \$1.50; 10 for \$14.00.

DUCHESSE. Season, July and August. A vigorous growing, hardy tree. Fruit is large, greenish yellow striped with red. Each, \$1.50; 10 for \$14.00.

ERICKSON. Season early. Fruit large and bright red in color. Of special recommendation for northern section of Minnesota or Wisconsin. Each, \$1.50; 10 for \$14.00.

FIRESIDE. One of the best. Some say it has no equal. A hardy Delicious. Nearly solid red when fully colored. Colors slowly. A good bearer every year. Season January to April. Each, \$2.00; 10 for \$19.00.

HARALSON. Season, January to April. Has been aptly called the Northwest's best winter apple. Tree vigorous and very productive. Each, \$1.50; 10 for \$14.00.

McINTOSH. Season, October to January. One of the finest apples grown. Because of its brilliant deep red color, delicious flavor, crisp snow-white flesh and distinct pleasant aroma many people prefer it to all other varieties. Each, \$1.50; 10 for \$14.00.

MINJON. (Minn. No. 700.) An apple closely resembling Jonathan in size, color and form. It is very hardy, very productive and ripens soon after Wealthy. Good eating and cooking quality. Each, \$2.00.

MINNETONKA BEAUTY (Pat. 474). A late very hardy winter apple of good size and exceptional quality, an exceptional keeper. Color a bright, attractive, medium red over yellow. Each, \$2.25.

NORTHWEST GREENING. Season, November to June. Splendid for cooking. Each, \$1.50; 10 for \$14.00.

PRAIRIE SPY. It is a medium to large apple, ripening late, and an exceptionally good keeper. Fruit covered with carmine red stripes and is very attractive. Quality good. We do not recommend planting it in Northern Minnesota as the season is not long enough to properly mature the fruit. Each, \$1.50; 10 for \$14.00.

WEALTHY. Season, September to January. One of the best market and home orchard varieties for Minnesota. Fruit medium to large, beautiful red in color and good flavor. Each, \$1.50; 10 for \$14.00.

Crab Apple Trees (5 to 6 Ft.)

CHESTNUT (formerly Minn. No. 240). This large desert crab has met general approval because of hardiness, productiveness and excellent quality for eating fresh or for sauce, pickles, and pies. The color is an attractive bronze red, season is early September. Each, \$2.00.

DOLGO. It is absolutely hardy and very prolific, producing an abundance of small red crabs, which make a perfect jelly even when fully ripe. A beautiful ornamental tree. Each, \$2.00; 10 for \$18.00.

HOPA. A very ornamental tree. Red blossoms completely cover the tree in early spring. Fruit is small, red inside and out. Each, \$2.00; 10 for \$18.00.

HYSLOP. Dark rich red fruit of large size and sub-acid flavor. Each, \$1.50; 10 for \$14.00.

TRANSCENDENT. A well-known variety of hardy crab. A good pickling and jelly crab. Has a tendency to blight. Each, \$1.50; 10 for \$14.00.

VIRGINIA. Very hardy and a vigorous grower, does not blight, fruit good for pickling or jelly. A prolific, annual bearer. Each, \$1.50; 10 for \$14.00.

WHITNEY. A fine crab for eating purposes or sweet pickles. Fruit of red color. Each, \$1.50; 10 for \$14.00.

Hardy Cherry Trees (4 to 6 Ft.)

The Hardy Cherries that we offer are results of crosses between plum and cherry. The trees are hardy. The fruits possess the Cherry flavor and are not bothered by the birds.

COMPASS. Compass is an early fruiter, bearing the second year. It is indispensable as a pollinizer for Sapa and Oka. It is a very hardy tree and thrives in nearly any sort of location. The fruit is especially good for jams and for canning. Heavy yielder. Each, \$1.75; 10 for \$16.50.

EARLY RICHMOND CHERRY. Hardest of all pie cherries. This is the only true cherry that we offer. The fruit is of medium size and is borne in great quantities. Excellent for canning and pie. Fruit is dark red. Each, \$2.00; 10 for \$19.00.

OKA. This is one of the best of the Hybrid Cherries. Hardy cherry excellent in both the South and as far North as you wish to plant. Skin is black and flesh red. Fruit is very attractive, a heavy bearer. Of bushy habit and should be grown as a shrub. Each, \$1.75; 10 for \$16.50.

SAPA. A hardy tree bearing heavily, dark red with wine-colored flesh fruit, excellent for sauce and preserves. Each, \$1.75; 10 for \$16.50.

Pollenizers for Minnesota Plums

It is necessary to plant one or two pollenizing plums with any of the Minnesota hybrids in order to get good yields. It has been found that the Minnesota hybrids do not fertilize one another.

Plum Trees (5 to 6 Ft.)

ELLIOTT. A large, dark red freestone plum. Tree is hardy and a heavy yielder. Each, \$2.00; 5 for \$9.75.

HENNEPIN. A mid-season, medium size fruit of bluish color and delicious flavor. Each, \$2.00; 5 for \$9.75.

KAGA. One of the best pollenizers for Minn. Hybrids. Kaga is a very high quality, heavy yielding plum. Especially good for canning. Each, \$2.00.

MONITOR. Late mid-season. It produces a large beautifully formed tree of upright spreading growth, is very vigorous and hardy. Fruit large red, firm fleshed and of excellent quality. Each, \$2.00; 5 for \$9.75.

PIPESTONE (Minn. No. 218)—A new, very large, productive, early midseason variety of excellent quality for dessert and culinary purposes. Yellow with a red blush. Each, \$2.00; 5 for \$9.75.

RED WING. Mid-season. One of the largest of the new plums. Outstanding because of its unusually large, fine appearing, deep red fruits of high quality. Hardy in all parts of Minnesota. Each, \$2.00; 5 for \$9.75.

REDCOAT. (Minn. No. 17.)—A new, red, free-stone, early ripening, very productive, hardy plum introduced to replace Red Wing. Long oval (prune shaped), excellent for canning and cooking. Each, \$2.00; 5 for \$9.75.

SUPERIOR. Considered one of the best mid-season plums. Fruit is large, beautiful red, flesh firm, of exceptional quality. Each, \$2.00; 5 for \$9.75.

SURPRISE. Fruit is attractive red and of high quality. A light yielder and we recommend planting only for pollenizing other varieties. Each, \$2.00; 5 for \$9.75.

UNDERWOOD. One of the best plums for general growing. The fruit is large, of an attractive red color, with a firm, juicy, golden yellow flesh. Season, late July and early August. Each, \$2.00; 5 for \$9.75.

WANETA. Prof. Hansen's best plum. Very large, dark red overlaid with blue. Fruit of splendid flavor. Hardy and a heavy bearer. Each, \$2.00; 5 for \$9.75.

Pear Trees (5 to 6 Ft.)

Pears require the same soil and cultivation as apples. Pruning and spraying also similar.

PARKER. (Minn. No. 1.)—This probably is our most dependable pear. Introduced by the Minnesota State Fruit Breeding Farm and has proven of real value. We recommend it for general planting in the South half of Minnesota and in favorable locations in Northern Minnesota. Fruit is large, color is yellow with distinct blush. Flesh tender and juicy. Quality very good. Each, \$2.50.

MENDEL. Mendel is another hardy pear. Tree is a vigorous grower and practically resistant to blight. Fruit is medium size and good quality. Color, yellow. Mendel yields heavy and is considered by many to be equal to Parker. Each, \$2.50.

Apricot Trees

Due to the extreme scarcity we are only able to get a very limited amount of Apricot trees this season. The trees we offer are very hardy for our Minnesota climate, also drouth resistant. Bear generously, fruit of bronzy gold color and yellow flesh of pleasing flavor. Ripen usually the latter part of July. Plant two or more trees for pollenizing purposes. Each, \$2.25.

Careful spraying of fruit trees means perfect fruit and healthy foliage. It is not hard to do, either. Our free spray chart tells when to spray and what to use. Ask for it.

Hansen's Bush Cherry

Here is an easy-to-grow, hardy, dwarf bush that makes a beautiful shrub with gorgeous white flowers in the spring, and rich red and gold leaves in the fall. Fruit grows in clusters, plum-shaped, but the size of a sweet cherry. Fruit is good to eat from the bush, and makes wonderful jelly and jams. Bush usually bears the year after planting. 2 to 3 ft. size, each, 85c.

Nanking Bush Cherry

A very beautiful and attractive ornamental bush with its lovely compact foliage preceded by an abundant bloom of pink flowers. In June the bush is fairly covered with brilliant red edible fruit, similar to but smaller than the sour cherry. Finest quality cherries for pies, preserves, jams and jelly. Plant two or more bushes to insure pollination. Grow 5 to 6 ft. high, 2 to 3 ft. size, each, \$1.35; 3 to 4 ft. size, each, \$1.75.

Blackberry Bushes

ALFRED. A comparatively new blackberry that has given good results wherever planted. Immense sized berries, practically coreless, heavy producers and very hardy. Worthy new commercial variety, ripens over a long period of time. Each, 25c; doz., \$2.00; 25, \$3.15.

Raspberry Bushes (Extra Heavy)

CHIEF. The fruit, medium in size, bright red, firm. Ripens early and extends over a long period. Quality of fruit is excellent. The plants are vigorous in growth, perfectly hardy and seem to be resistant to mildew and mosaic. The wood ripens early and is a good plant maker. Chief has the good qualities looked for in a raspberry; earliness, quality of fruit, and yield. Heavy plants. Doz., \$2.00; 25, \$3.75; 100, \$12.50.

INDIAN SUMMER, EVERBEARING. A raspberry that produces a crop towards the end of June and another in late September, here in the St. Paul area. The berries are large, conical, medium red, rather soft and of good quality. Indian Summer is the best everbearing red raspberry that we know of. Very disease resistant. Doz., \$2.50; 25 for \$4.50; 50, \$8.00; 100 for \$15.50.

LATHAM. (Minn. No. 4.) That great Minnesota Introduction—holds first place as a leading commercial and home variety of Red Raspberry. It is hardy everywhere, bushes are sturdy, upright, and vigorous, particularly resistant to disease of all kinds. The fruit is very large, dark red, and firm. Latham is an excellent shipper, heavy yielder, easy picker. It has the qualities that make it the leading Red Raspberry. Heavy plants. Doz., \$2.00; 25, \$3.75; 50, \$7.00; 100, \$12.50.

NEWBURGH. The berries are very large, firm, and of rather dry texture, which makes Newburgh highly desirable as a commercial berry. The fruit holds its color very well which makes it possible to hold it over or leave without picking for two or three days without injury. The season is about the same as Latham. Doz., \$2.00; 25, \$3.75; 50, \$7.00; 100, \$12.50.

SUNRISE. This is an outstanding raspberry, very hardy for either home or commercial grower. One of the earliest to ripen, bearing large bright red berries that turn darker when fully ripe. Sunrise is very disease resistant. The berries pick easy, are very firm and juicy with a mild sub-acid flavor. Doz., \$2.00; 25 for \$3.75; 50 for \$7.00; 100 for \$12.50.

Currant Bushes

RED LAKE. The berry is very large and is borne on long stems forming exceptionally long, well filled bunches. The quality of fruit is very good, the ripening season is medium, and the plant a heavy yielder. While this variety produces large berries on long bunches, its most valuable quality is the sturdy upright type of bush. Because of the above qualities, Red Lake is the leading currant today. Each, 70c; 5 for \$3.00; 10 for \$5.50.

Strawberry Plants

Prices subject to plants being available.

JUNE BEARING

DUNLAP. Mid-season. An old favorite. One of the best known and most widely grown strawberries in the north and eastern half of the United States. 25 for 90c; 50 for \$1.50; 100 for \$2.25; 500 for \$8.00.

PREMIER. Perhaps the most popular June bearer at the present time. Ripens very early, productive and hardy, also a fair to good plant maker. Berries bright red, fairly firm, of good quality. 25 for \$1.25; 50 for \$2.25; 100 for \$3.50; 500 for \$13.00.

BEAVER. While not as high in flavor as Dunlap or Premier, Beaver is a firm berry and especially good for canning. Does best on sandy soils. Beaver berries have good color, yield early and heavy and are a good shipper. 25 for \$1.35; 50 for \$1.75; 100 for \$3.00.

EVERBEARING

BRUNES MARVEL. Berries are as large as the Gem or Mastadon and as sweet as the Wayzata. Sets runners freely. Roots are known to go down as deep as 17 inches, so stand dry weather well. Cultivate plants all summer. Keep bud clusters picked off from 6 to 7 weeks after planting, then let them bear the rest of the summer. Doz. for \$1.00; 25 for \$1.75; 50 for \$3.00; 100 for \$5.25.

EVERMORE. (Minn. No. 1166.) This new everbearer is in much demand due to its hardiness and good plant forming qualities, as well as being a heavy producer. Fruit is medium to dark red and inclined to be tart. Doz., \$1.00; 25 for \$1.75; 50 for \$3.00; 100 for \$5.25.

GEM. (Everbearing.) Berry is large and light red of excellent quality. Very immune to disease. A good bearer. A dependable variety that sets runners well. 25 for \$1.50; 50 for \$2.50; 100 for \$4.00.

STREAMLINER. The New Everbearing Strawberry is especially hardy and combines the virtues to make this an outstanding variety. Bears large sized fruit of excellent flavor. The healthy foliage and freedom from disease makes Streamliner outstanding. Doz., \$1.50; 25, \$2.50; 50, \$4.50; 100, \$8.00.

WAYZATA. (Everbearing.) A hardy disease and frost-resistant variety. Fruit attractive and equal to the best June berries. Doz., \$1.50; 25 for \$2.50; 50 for \$4.50; 100 for \$8.00.

Gooseberry Bushes

PIXWELL. This is a new, hardy variety that produces large bushes loaded with fruit. Berries are large, oval shaped, of pleasing light green color turning pinkish when ripe. The berry stems have few thorns which makes picking easy. Each, 90c; 3 for \$2.40.

PERKINS. The berries are highly productive, very large, measuring one and one-half inches long and one inch wide. The color is light green, turning to golden yellow at maturity. The flavor is pleasantly sweet and of best quality. Each, \$1.00; 3 for \$2.75.

Berry bushes, grape vines and strawberry plants are from state inspected nurseries for your protection.

Grape Vines—2-yr. Heavy Plants

Plant two or more varieties to insure proper pollination.

AGAWAM. A large, dark red grape; pulp soft and sweet. Vines strong, hardy and productive. Ripens early. Mid-September. Each, 55c; 5 for \$2.50; 10 for \$4.75.

BETA. An excellent grape for Minnesota and the Northwest. The vines are as hardy as the wild grape, which means they do not require protection in the winter as many of the other varieties do. Fruit is black with blue and of the best quality to use for jelly and juice, as it has the wild grape flavor. Fruit is nearly as large as Concord, and a much better yielder in this climate. Ripens about the first of September. Each, 55c; 5 for \$2.50; 10 for \$4.75.

BLUE JAY. (Minn. No. 69.) This grape has very compact, large clusters of berries, about the same size as Concord. They are dull black and covered with a bluish bloom. When first colored and apparently ripe, they are rather acid, but if allowed to remain on the vine for 10 to 14 days longer, they become mild and pleasing in flavor. Also good for making juice and jelly. This variety needs to be planted near some other variety that will furnish pollen. Each, 95c; 5 for \$4.00.

CONCORD. Purplish black skin, berries medium size in compact bunches. Highly resistant to drought, insects and disease. Season medium late here in the Northwest. Semi-hardy in Minnesota. Cover in the fall. Each, 55c; 5 for \$2.50; 10 for \$4.75.

MOONBEAM. (Minn. No. 66.) The color of the large berries is light greenish-white turning to yellow when very ripe. The vines are unusually vigorous and easy to propagate. The clusters are seldom above medium size, but berries are fully as large as Concord. The skins are extremely tender. Each, 95c; 5 for \$4.00.

MOORE'S EARLY. Berries are large, jet black, similar to Concord, but ripen about two weeks earlier. Each, 55c; 5 for \$2.50; 10 for \$4.75.

NIAGARA. Best of the white varieties, large compact bunches of greenish-white berries change to pale yellow when fully ripe. A heavy producer of good quality fruit, matures medium late. Each, 55c; 5 for \$2.50; 10 for \$4.75.

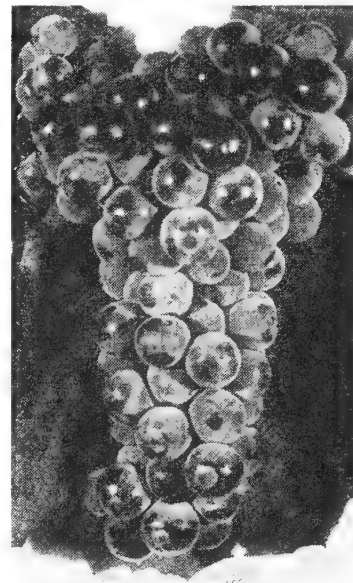
RED AMBER. (Minn. No. 45.) This red grape is considered by many as having the best quality of any. The vines are vigorous and clean in appearance. The berries, smaller than those of Concord, borne in clusters of medium size. At the Fruit Breeding Farm they ripen in early September. The flavor is very sweet and rather spicy and of a delicious quality. Short in 1947.

Boysenberry

It is a cross of the raspberry, blackberry and loganberry; berries almost seedless, sweet and of finest flavor and about two inches long. Make wonderful jelly, jam and pies. Train to stakes like grape vines. Lay canes down and cover with straw in the fall for winter protection. Plants, each, 35c; doz., \$2.85; 25 for \$4.45.

Strawberry-Raspberry Plant

This is a cross between the strawberry and raspberry, resembling both in many points. In size and color it is like the strawberry, growing on dwarf bushes. It produces an abundance of fruit which is fine for jelly, jams, etc. Fruit should not be picked until thoroughly ripe. Each, 20c; doz., \$2.00.



FIELD SEEDS

FIELD SEED PRICES

Owing to the uncertainty of prices at the time of printing this catalogue, no prices are quoted on Field Seeds in this book but will be given on Special Field Seed Price Lists issued during the season.

See Yellow list enclosed with catalogue.

ALFALFA

Sow at the rate of 12 to 15 lbs. to the acre, drilled.

Poor seed is a primary and great cause of a poor stand. In buying Alfalfa Seed the highest priced seed is often the cheapest. The loss is much greater in using seed of poor quality, than the difference in cost of the seed. This loss comes from the labor thrown away, the stands lost and yields sacrificed by its use, as well as the final expense in getting rid of the weed seeds introduced.

Inoculation is necessary. Inoculation means putting or planting in the soil, nitrogen-fixing germs or bacteria without which the Alfalfa cannot flourish—this in spite of soil having had previously, inoculated crops.

Northern Alfalfa

This is one of the very best strains grown and is especially adapted to withstand our Northwestern severe climate. We believe this to be one of the most satisfactory varieties for the North, obtainable this year. See our Special Field Seed Price List for prices.

CLOVER SEED

Medium Red Clover

This is the recognized standard of the clover family. It produces two crops each year. The first is generally harvested for hay when in full bloom. The second crop may be harvested for seed, cut for hay, or plowed under for fertilizer. Sow 6 to 12 pounds to the acre. Refer to Special list for prices.

Alsike or Swedish Clover

One of the hardiest varieties known. It is perennial and does not winterkill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is fine stemmed and leafy and quickly cured. It makes a very profitable seed crop in many sections of the Northwest. See Special price list for prices.

Mammoth Red Clover

This variety is grown mostly for pasture and for soil-ing. It is a very vigorous grower, but is not desirable for hay unless cut when quite young. Prices quoted on Special price list.

White or Dutch Clover

A low close growing clover, with round white heads. Very fragrant and desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grasses. Does well on most any soil. Prices given on Special list.

Sweet Clover (Tall White Blossom)

This variety makes the most abundant growth of any of the clovers. Because of its dense growth and enormous root system, it is a very valuable soil improving crop. While it is a biennial and normally only grows for two years it will generally reseed itself if allowed to grow to maturity. Ohio Extension Bulletin No. 55 says that an acre of sweet clover will add as much nitrogen to the soil as 20 tons of manure. See Special Field Seed price list for prices.

Sweet Clover, Yellow Blossom

This variety grows finer and more spreading than the white and is not so tall. It matures more quickly than the White Clover and for a second season the hay crop is probably preferable to White Sweet Clover because of its finer stems. Refer to Yellow price list for prices.

REED CANARY GRASS

An excellent, hardy, perennial grass especially adapted to low lands where other grasses will not do well. It thrives in locations where the water table is practically at the surface of the soil all the time and above the surface part of the time. No other forage crop, the seed of which is available in quantity, will thrive so well on highly productive lands that are too wet for most other crops. Will produce two crops a year after the first year. The hay is as good as Timothy and is relished by horses and cattle. Sow 4 to 6 pounds to the acre broadcast or 2 or 3 pounds with drill. See Yellow list for prices.

GRASSES

Kentucky Blue Grass

Will outlive any other grasses for pasture or lawn, but should not be cut or pastured too closely in extremely hot, dry weather. The seed is very slow in germinating, therefore, it is advisable to plant with other varieties of quicker growing habits. Makes a sweet and nutritious pasture for all stock. See Special list for prices.

Rye Grass

Is a very quick growing grass and for that reason makes an excellent pasture. It thrives on rich, moist land, where from three to four cuttings may be made in a season. Grows very quickly and will stand close pasturage. See Special Field Seed price list for prices.

Red Top

As a hay crop, Red Top is next to Timothy in importance. It will do the best on rather moist soil, but will thrive on most any soil. It is a good variety to sow with Timothy or Clover for meadow or pasture, and is more permanent than either of the other two. Prices quoted on Special Yellow price list.

Crested Wheat Grass

Recommended highly by farm authorities as being one of the most drought-resistant grasses. Grows fast in cool weather, but is more or less dormant in extreme hot weather. When used for pasture, no amount of abuse seems to stop its growth. For hay and pasture, compares favorably with *Bromus Inermis*. Sow at rate of 12 lbs. to the acre. See Yellow list for prices.

Meadow Fescue

Especially suited for pasture and is also fine for hay. Succeeds even in poor soil and will endure severe freezing. The hay is very nutritious and cattle thrive on it. Prices quoted on Special Field Seed price list.

Orchard Grass

Is an early fibrous rooted perennial. Its rapid growth makes it very desirable for pasture. Withstands droughts better than most grasses. Will thrive in the shade such as in orchards and lanes. When closely cropped, it grows up quickly again. See Special list for prices.

Bromus Inermis

This grass is noted for its hardiness and drought resistance. It will grow in any kind of soil and in any kind of weather. Produces an abundant hay crop, and makes an excellent pasture. *Brome Grass* thickens up rapidly by underground roots or stems. It forms a dense sod six to eight inches thick, binding the soil and preventing it being wind blown. For prices see Yellow list.

Timothy

The principal thing to look at when about to sow Timothy, is the quality of the seed. Our reliable seed is of superior quality. Ten lbs. of good Timothy seed is sufficient for one acre, making an inexpensive crop to seed. Prices given on Special Field Seed price list.

Timothy and Alsike Mixed

For those who prefer to sow Alsike Clover and Timothy together, we have a mixture that has the right proportions for growing a splendid hay crop. See Special Field Seed list for prices.

MILLET

Millet is grown almost exclusively in these northern states for hay only, and we find that southern grown millet seed will produce a much heavier crop of finer hay than that grown from northern seed. We therefore offer only true southern grown seed in our millets. Sow at the rate of 25 to 30 lbs. to the acre for hay; for seed, about 15 pounds.

Early Fortune

One of the proso millets that matures in 50 to 60 days after sowing. Seeds reddish brown, head compact. Sow 25 pounds to the acre. See Special list for prices.

German Millet

The most popular of all millets. Should be cut in full bloom, when it is most tender and sweet. Sow about 35 pounds to the acre. See Special list for prices.

Hungarian Millet

Is favored by some on account of its rapid growth, maturing about a week or ten days earlier than German Millet. Makes excellent hay. Prices listed on Field Seed price list.

Japanese Millet

It grows from five to nine feet in height, and produces enormous crops of fine hay. If sown broadcast, sow fifteen to twenty pounds to the acre; in drills at the rate of ten pounds per acre. It does best on low, moist ground. Refer to Yellow list for prices.

Siberian Millet

Earlier than either German or Hungarian. Very valuable for the North. Is extremely hardy, and drought resistant. Excellent for hay and is not subject to rust. For prices see Special price list.

SUDAN GRASS

This popular hay and pasture crop is a native of tropical Africa and therefore it is necessary for the soil to warm up in the spring before planting the seed. It may be sown as late as July or August but its season will then be quite short. It is usually big enough to pasture when five or six weeks old, or sooner if it gets 12 to 14 inches tall. It grows remarkably well during the hot dry weather of July and August. As a hay crop Sudan should be cut from the time the heads begin to appear until the seeds are in the soft, dough stage. The best hay is from the early cutting. Sudan grass is an annual, lacking underground root stalks. Two cuttings can be obtained under favorable conditions, and may yield from 2 to 5 tons of cured hay per acre. If for hay, sow about 25 to 30 pounds to the acre broadcast. If wanted for silage, sow about 10 pounds to the acre in rows and cultivate the same as corn, or it may be sown with fodder corn if preferred. Sudan, if cultivated, will grow to a height of 8 or 10 feet. **See special field seed price list for latest quotations.**

FLAX

It is a splendid crop to grow on new breaking, for it not only produces a good paying crop but it also helps to prepare the soil for future crops, leaving ground in a nice mellow condition. Before sowing, it is especially important to have the ground well firmed. Also be sure that there are no open spaces in the bottom of the furrows, as these are likely to cause the roots to rot. Sow 25 to 40 pounds to the acre, as early as possible and yet avoid the last killing spring frost.

Bison Flax

A large seeded wilt and rust resistant variety, developed by the No. Dak. Experimental Station. Bison has practically replaced all other older varieties. It will yield on an average, 20 bushels to the acre and some have yielded as high as 30 bushels to the acre. **See Yellow list for prices.**

Red Wing

A variety somewhat earlier than Bison and recommended for Central and Southern Minnesota. Red Wing was developed by the Minn. Agric. Sta. Seed is medium sized and gives a very high quality oil. **Prices given on yellow list.**

Inoculate all Legume Seeds with

NITRAGIN

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When ordering, Always state name of seed.

ALFALFA

Sweet, Bur, Hubam Clovers
Size Retail
1 bu. each.....\$.50
2½ bu. each. 1.00

CLOVERS

Red, Alsike, Crimson, White and Ladino.
1 bu. each.....\$.50
2½ bu. each. 1.00

LESPEDEZA

100 lb. size (Inoculates up to 100 lbs.) ea.....\$.50

PEAS (All Varieties)

VETCHES (All Varieties)
100 lb. size (Inoculates up to 100 lbs.) ea.....\$.50
1200 lb. size ea..... 5.70
(12-100 lb. cans)

LUPINES (All Varieties)

100 lb. size (Inoculates up to 100 lbs. seed) ea.....\$.50

GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima Beans and Edible Soybeans.

Enough for 8 lbs. seed — Retail Price 10c each

SOYBEANS

Size Retail
Small (Inoculates up to 120 lbs. seed)\$.30
5 bu. each55
25 bu. (One can).... 2.50
30 bu. (6-5 bu. cans) 3.25

BEANS—Navy, Pinto, Wax, String, Kidney and Great Northern
1 bu. each.....\$.35

PEANUTS, LIMA BEANS, COW PEAS

Small (Inoculates up to 120 lbs. seed)\$.30
5 bu. each55
25 bu. (One can) 2.50
30 bu. (6-5 bu. cans) .. 3.25

RYE

Spring Rye

Makes an excellent crop for sowing where winter grain has been killed off or for soiling. It can also be grown for a grain crop by being seeded early in the spring and harvested in the same season, like wheat or oats. Does not grow quite so large as winter rye, but usually yields well. Sow about 1½ bushels to the acre. **Latest prices are given on special field seed list.**

Rosen Winter Rye

Has proven itself to be far superior to any other winter rye. It is a heavy yielder with large, well-filled heads and large dark green kernels. The straw is big and strong and will stand the weather better than any other variety. **Refer to yellow list for prices.**

WHEAT

Sow at the rate of 75-90 pounds to the acre.

New Thatch

An early, beardless spring wheat with strong straw. A much heavier yielder than the old Thatcher, yet it is of equal quality for milling and baking. Moderately resistant to leaf and stem rusts, loose smut and bunt. **See yellow list for prices.**

Marquis

Millers prefer this variety because of its splendid appearance and milling qualities and high gluten content. Beardless with smooth, yellow chaff. Kernel is flinty, very dark red. It weighs 62 to 64 pounds per bushel. Susceptible to rust. **Please refer to yellow list for price.**

Mida Spring Wheat

A new bearded variety of Spring wheat. It resembles Rival a good deal in field appearance. Mida, however, is a little earlier in maturity, has a stiffer straw than Rival, and is more resistant to leaf rust. It has a deeper colored grain that thrashes easily but not quite as easily as Rival. It will run somewhat heavier in test weight. In general performance, it has shown up better than Regent. **See special yellow list for prices.**

Rival

Rival has been developed by the North Dakota Station and the United States Bureau of Plant Industry. Is a bearded, long strawed variety with a tendency to lodge in years when straw is rank and a tendency to shatter under some conditions. When moisture is ample the stalk sometimes has a purplish color, but by maturity Rival is moderately resistant to stem rust, leaf rust, bunt, loose smut, root and foot rots. It is moderately susceptible to scab and susceptible to black chaff. Rival yields are equal to or higher than Thatcher. The test weight is usually higher. We consider that Rival is superior to the Thatcher. **Please refer to yellow list for prices.**

Minturki Winter Wheat

The hardest of hard winter wheats, with red beard and strong straw. Originated from a cross between Turkey and Odessa, the crossing being accomplished at the Minnesota Agricultural Experiment Station. It has out-yielded other varieties of winter wheat in Minnesota and seems to be particularly adapted to this state. Of good baking quality. **Prices are given on yellow field seed price list.**

Red Durum

This wheat is practically immune to the dreaded rust. In growing it resists extremes of weather which no other wheat will endure. Grows very strong and with surprising rapidity. It does not shell or bleach; is almost hail proof owing to the tightness of the hull. This wheat is used for feeding and is not a milling wheat. **Prices given on yellow list.**

OATS

CULTURE. Sow oats at the rate of 2 to 2½ bushels to the acre, very early in the spring on a well prepared field with a modern grain drill. Deep seeding on heavy clay soil is often fatal to the crop. Two inches is deep enough on a fine, compact seed bed.

Ajax

A new White Oat variety introduced from Canada. Has moderate straw strength and good stem rust resistance, but only fair resistance to leaf rust and smut. Yields in the northern half of Minnesota and North Dakota have been very good and should do well wherever Gopher, Anthony and Vanguard have been raised. These last three varieties are practically out of existence, having been replaced by Vicland and Ajax. A very desirable variety for planting in the northern half of Wisconsin and Minnesota. **See special list for prices.**

Tama

Resembles Vicland oats in all characters and has yielded slightly more in some locations. Tama is a cross of the same two varieties—Victoria and Richland. Tama has been developed and named by the Iowa Experiment Station at Ames. **See special yellow list for prices.**

Vicland

Vicland is a selection from a cross between the Victoria, a South American strain which is resistant to most oat diseases, and the Richland, a high yielding Iowa oat tracing its ancestry to Russia. The new oat is higher yielding than its Richland parent and has the rust and smut resistance of its South American parent. It is an early yellow oat, with a short, stiff straw which stands up better than other grains. Growers report yields of 80 to 120 bushels per acre. **See yellow field list for prices.**

BARLEY

Wisconsin No. 38 (Barbless)

A smooth awned barley developed by the Wisconsin station. Resistant to barley stripe. Has a large head and plump kernel and stands the heat and dry weather better than other varieties. Many yields of 40 to 50 bushels are reported. A fine malting variety. Sow at the rate of two bushels to the acre. See special yellow list for prices.

"L" Barley

A relatively new rough awned 6-row variety developed at Kindred, N. D. It has been outstanding the past few years in various parts of North Dakota and the past year in several trials in Minnesota, south of Minneapolis. It is about one week earlier than Wisc. 38. It has a good straw, stands well, is rust resistant, is a good malting barley and pearls white. See special yellow list for prices.

FIELD PEAS

Are not only profitable as a dry shelled crop, but may also be used for hay, pasture, or shelling with excellent results. Peas are second only to clover in their soil enriching properties and can be grown under almost any condition of soil or climate. Seed at the rate of 2½ to 3 bushels to the acre.

Canada Yellow Field Peas

The standard field pea of the Northwest, and needs no description. It is always in demand either as a dry pea for cooking, or for pigeons. Prices given on special field seed price list.

Marrowfat Fancy

Vines grow 4 to 5 feet high bearing long, round pods with 5 to 7 large round peas. Yields abundantly. See special price list for latest quotations.

Inoculate peas and beans with Nitragin before planting. See page 47 for prices.

SOY BEANS

Soy beans are one of the most valuable crops one can raise. As a hay crop, soy beans are higher in protein content than clover and equal to alfalfa hay. Are excellent for silage grown with corn. Do not plant too early; about corn planting time or later. Inoculate seed with Nitragin before planting. Cover seed lightly.

CULTURE. For silage, the usual amount of corn is planted and soy beans added at the rate of 10 pounds per acre. Seed may be mixed in the planter box and stirred at each row end or planted from separate boxes. The two crops may be grown separately and mixed in the silo cutter two parts of corn to one of soy beans. The beans should be almost ripe when cut.

For hay, plant 60 to 90 pounds per acre in rows 20 to 36 inches apart. Harvest when pods are well filled and leaves commence to turn. Allow to wilt in swath, then rake up and place in small cocks. Curing sometimes requires several days and should be thorough. Soy beans drop their leaves quite easily and should be cut before any number have fallen. They should be handled as little as possible to retain the most leaves.

For hogging off plant 30 to 60 pounds per acre in rows 20 to 42 inches apart. Twenty-inch rows can be made by straddling every other row with the corn planter. As soon as the beans are matured, turn in the hogs to harvest the crop.

Harbaro

This variety developed at the Minnesota Agric. College is recommended for Central and Southern Minnesota. Harbaro is highly resistant to lodging and plants grow up to 3 feet, and mature in about 110 to 115 days. Seeds are yellow and hilums of the same color. Yields will vary from 14 to 25 bushels to the acre. Average yields of hay on loam soils are about 2 tons per acre and on light sandy soil about one ton to the acre. Prices given on special yellow list.

Mandarin

This variety is especially recommended for northern areas as it matures in 95 to 110 days. The pods of round yellow beans are held higher from the ground than most Soy Bean varieties. Please see yellow list for prices.

Manchu

This popular variety is especially recommended for the Northwest for hay, dry beans, as well as planting with corn for silage. Beans are yellow, of medium size and mature medium early. Yields of beans will average around 25 bushels to the acre. See special yellow list for prices.

SORGHUM

Early Black Amber Sorghum

A fine variety for cane production for the making of syrup. Plant in rows and cultivate the same as corn. Sow 2 to 5 lbs. of seed to the acre. Prices given on special yellow price list.

Waconia Orange

An improved strain over the Amber Sorghum. Stalks are shorter but much sturdier and withstands the storms much better against lodging. Produce a high quality syrup. See special list for prices.

FIELD CORN

Dependable seed corn must meet three important qualifications: Germination, Maturity and High Yielding Inheritance. A high degree of germinating vigor is necessary to overcome unfavorable planting conditions. Dependable seed corn should mature in the average season in the area in which it is to be planted. A thorough understanding of requirements of each area based on long experience is necessary. Only by continued comparisons of yielding ability of various strains of the same variety can one be sure of high yielding ability. That is why Kingscrot Hybrid is so outstanding.

Hybrid Corn

Hybrid seed corn is a first generation cross between inbred strains. Inbred strains are developed by continual inbreeding of selected plants for several generations over a period of better than 10 years. Yields of hybrid planted seed corn will average from 7 to 11 bushels per acre higher than the regular varieties. Hybrids possess greater resistance to lodging, greater resistance to drought and considerable higher shelling percentages.

Kingscrot Hybrid Minn.

100 Day Seed Corn

This remarkable hybrid improvement represents eight years of extensive research aimed at a superior development for the 100 to 105 maturity zone. In maturity it compares favorably with standard strains of the variety Minnesota 13. Kingscrot KS attained the seemingly impossible by combining into one hybrid a rare stalk breakage resistance, high yield, and earliness of maturity. No longer is it necessary for northern corn belt farmers to risk the hazards of growing later hybrids for the increased yield. Kingscrot KS developed on an entirely new hybridizing principle has demonstrated in official state trials that it can yield and surpass in standability leading hybrids which are as much as ten days later in maturity. Prices given on special yellow list.

K F—Hybrid Semi-Dent

A cross between flint and dent varieties, recommended for 80-day areas. Leafy, non-suckering tall plants, high ears and stalk strength insure fall standability. Prices are given on special list.

Hybrid Silo

107 days

Here is a corn for silage that will give you a maximum of yield. The quality of the ear corn and foliage is unsurpassed, and of the highest feeding value. Prices listed on yellow price list.

Gould's Reliable Red Cob Fodder

Is a tall growing southern corn that will produce an abundance of feed per acre. The kernel is white and grows on a red cob, thus deriving its name. Prices given on special field seed price list.

N. K. & Co.'s Elephant Fodder

Of the yellow dent type, but grows taller and more leafy than the average yellow dent corn, therefore producing a very heavy yield. See yellow price list for prices.

RAPE

Dwarf Essex

An annual forage plant which may be eaten off by any kind of livestock, but it is pre-eminently adapted for cattle and swine. A good crop will furnish at least 12 tons of green feed an acre. Thrives best on good soil, rich in vegetable matter. Slough lands are excellent. Sow broadcast, 5 pounds an acre or sow in rows thirty inches apart and cultivate 1 to 2 pounds an acre. Rape may be sown as late as July 1st, and produce a fall pasture. Prices given on special field seed price list.

SPELTZ

While not quite equal to oats, it makes a fair horse feed. It yields more than wheat or barley and even the straw if cut slightly green has a good amount of feeding value. Speltz makes a fine feed for hogs and poultry. Sow in drills at the rate of 1½ to 2 bushels to the acre. Prices are given on special field seed price list.

SUNFLOWER

Mammoth Russian

Are especially useful in the poultry run, as the large leaves furnish shade for young chicks; also, the seeds make a good addition to the poultry ration. They are very rich in oil and protein and are splendid to feed during the moult and winter months. They are also valuable for hogs. Sow 2 to 3 lbs. to the acre. Prices given on yellow price list.

BUCKWHEAT

Buckwheat can be sown as late as July and still produce a crop, or it may also be plowed under for soiling. Sow ½ to 1 bushel per acre, as late as possible, and still have crop well developed before severe frosts occur. Light, well-drained soils are best for this crop.

Common

Seed is a rich dark brown and larger than Silver Hull. It resists drought and blight very well and produces seed early. Refer to yellow list for prices.

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Seashell Minnesota

fall pasture

Prices given on special field seed price list.

INSECTICIDES and FUNGICIDES

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Please Include Postage on Mail Orders.



Ant-Kill

Rid your home of the ant nuisance. Kill the ants in the nest. Price: Cottage Set—3-oz. syrup and 5 cups, 65c; 3-oz. bottles, each, 25c; 2-oz. bottles, each 20c; ½ pint, 50c; pint, 75c; extra cups, each, 10c.

Antrol

Quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special syrup. Price: Antrol Ready-filled Set, containing 4 filled feeders, 40c; Antrol Syrup, 4-oz. bottle, 20c; 2-oz., 10c; Ant Traps, 10c each.

Aphis Spray

An improved nicotine spray combining a soft fish oil soap with Black Leaf 40, suitable for the control of all kinds of aphids (plant lice), thrip, leaf hopper and many more hardy insects infesting rose bushes, flowers, shrubs, vines, bushes and trees. Mixes easily with any kind of water. Price: 3-oz. tube, 40c; 12-oz., \$1.25.

Arsenate of Lead

Recommended for the control of leaf-eating insects on fruit trees, vegetables, flowers, bushes and for killing grubs and earthworms in the lawn. Price: 1 lb., 45c; 4 lbs., \$1.25; 24 lbs. \$7.20; 48 lbs., \$13.80.

Atlacide

The non-poisonous weed killer. Kills quack grass, poison ivy and all other undesirable vegetation. 100 lbs., \$12.75.



Bait-M with Metaldehyde

An effective insecticide bait for use against snails, slugs, cutworms, earwigs, sow bugs, grasshoppers, etc. Price: 1 lb., 25c; 2½ lbs., 50c.

Black Flag

An effective spray repellent for flies and mosquitoes; also destroying roaches, waterbugs and ants: **Liquid.** ½ pt., 15c; 1 pt., 25c; 1 qt., 39c; 1 gal., \$1.39; 5 gals., \$5.50. **Powder,** 2½ ozs., 25c; 5 ozs., 49c.

Black Leaf 40

This is a 40% solution of Nicotine Sulphate, valuable for the control of plant lice and other sucking insects. It kills by coming in contact with the body of the insect. 1 oz., 35c; 5 ozs., \$1.05; 1 lb., \$2.50; 2 lbs., \$3.95; 5 lbs., \$7.40; 10 lbs., \$12.85.

Borax (Refined)

Used as a soil conditioner. 10 lbs., 90c; 25 lbs., \$1.65; 50 lbs., \$2.75; 100 lbs., \$5.00.

Bordeaux Mixture

Prevents and controls blight, rot, mildew, scab, anthracnose and certain other fungus diseases. It stimulates plant growth and almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. Price: 1 lb., 40c; 4 lbs., 95c; 48 lbs., \$10.20.

Borerkill

A nicotine preparation that kills borers in trees, shrubs, etc. Also can be used as a dog repellent. Tube, 60c.

Calcium Arsenate

The cheapest arsenical insecticide on the market and of great economy and efficiency to combat chewing insects on potatoes, vegetables, etc. Price: 1 lb., 25c; 4 lbs., 50c.

Calcium Chloride (Dow Flakes) Absorbs basement moisture.

Absorbs moisture from the air and keeps dust down on paths, driveways, tennis courts, etc. 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00; 1,000 lbs., at \$2.85.

Chaperone (Dog Repellent)

Powder: A household dog repellent for keeping dogs off rugs and furniture. Odorless to humans and does not stain, but is repulsive to dogs. ½ oz., 25c; 3 ozs., \$1.00. **Liquid:** For outdoor and garden use. Keeps dogs away from trees, shrubs and plants, 4-oz. size, 60c; 12 ozs., \$1.25; 1 qt., \$3.00.

Copper Carbonate

An efficient dust for the control of smut on wheat. 5 lbs., 50% strength, \$1.50.

Copper Sulphate (Blue Vitriol) Powder

Is used for making Bordeaux Mixture by dissolving 4 pounds Blue Vitriol and 4 pounds Hydrate or Stone Lime in 50 gallons of water. This will make a 4-4-50 Bordeaux. By using 5 lbs. Blue Vitriol and 5 lbs. lime one can make a 5-5-50 Bordeaux. 1 lb., 35c; 4 lbs., \$1.00; 10 lbs., \$1.90; 25 lbs., \$3.25; 50 lbs., \$6.00; 100 lbs., \$11.50.

Corrosive Sublimate

Very effective against seed-borne diseases of potatoes, cabbage, cucumbers, etc., also for the control of root maggot in cabbage, cauliflower, radish and other allied crops. 1 oz., 65c; ¼ lb., \$1.75; 1 lb., \$4.50; 5 lbs., \$16.00.

Crow Repellent

Saves re-seeding by protecting planted corn from crows, pheasants, gophers, squirrels and other rodents. ½ pt., 30c; 1 pt., 50c.

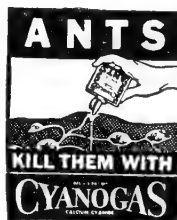
Cutworm Bait

There are few insects which year after year do such widespread damage to gardens as do cutworms. This cutworm bait is ready mixed and a little goes a long way in protecting plants from cutworms. 3 ozs., 30c; 7 ozs., 50c.



Cyanogas Ant Killer

Ants die instantly when you drop a little Cyanogas Ant-Killer into the entrance of the nest. 4 ozs., 30c.



Cyanogas (Calcium Cyanide)

Cyanogas A. Dust. For ants, moles, rats, gophers. Grade "A" Cyanogas is recommended because of its ease of application and high efficiency. Highly recommended for rat control. 1 lb., 75c; 5 lbs., \$3.00; 25 lbs., \$10.00; 100 lbs., \$25.00.

Cyanogas G. Fumigant. Insects which do not yield to stomach poisons as a rule can be controlled by fumigation and Cyanogas G. is a standard for greenhouse fumigation. Ease of application, high-efficiency and low cost have gained for Cyanogas G. Fumigant the endorsement of leading growers all over the world. 5 lbs., \$3.00; 25 lbs., \$10.00; 100 lbs., \$25.00.



Acme Dawg-Gone

Not necessary to place tube in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance from six months to a year winter or summer. Tube—25c, 4 for 95c; 1 doz., \$2.75.

DDT DUSTS AND LIQUIDS

DuraDust No. 25

A high grade wettable dust containing DDT. Can be used wet or dry like Arsenate of Lead. 1 lb., 60c; 4 lbs., \$1.75.

DuraDust No. 50—Same as above, only twice as strong. 4-lb. bag, \$2.75.

Garden DuraDust

Ready to use dust for home gardens containing DDT and copper fungicide. Effective against certain insects, as leafhoppers, corn ear worm, rose chafer. 1-lb. sifter carton, 50c; 4-lb. bag, \$1.05.

"Deenate" 50-W Residual

50% DDT powder to mix with water (1 to 2 lbs. to 100 gal.) for spraying animals and farm buildings as well as crops. 1 lb., 95c; 4 lbs., \$3.50.

"Deenate" X-10

Ready to use dusting powder. DDT-10%. 1 lb., 45c; 5 lbs., \$2.00.

"Deenate" 25-R

Emulsified oil to be mixed with water DDT-25%. As spray for farm buildings, is especially useful when minimum visible residue is desired. For this purpose, reduce to a 5% DDT solution by mixing 1 qt. to 1 gal. water. Against cattle lice, mix 1 qt. to 30 gals. water. 1 qt., \$1.65; 1 gal., \$5.75; 5 gals. at \$5.50 a gal.

INSECTICIDES AND FUNGICIDES—CONT.

Dendrol

An improved miscible oil for Dormant and Delayed Dormant spraying of Fruit and Shade trees and shrubbery. We have an interesting booklet on Dendrol and its uses. 1 qt., 75c; 1 gal., \$1.25; 5 gals., \$4.10.



Dogzoff

Protects your evergreens, trees, plants, birds, lawns from dogs, cats, moles, mice, rabbits, etc. There is nothing offensive to humans about Dogzoff. Price, 60c.

Dutox

Can be used as a spray or dust for the control of the potato beetle, cucumber beetle, bean beetle, etc. 1 lb., 30c; 6 lbs., \$1.25.

Emo

A summer oil spray recommended as a contact spray in the control of white flies, rust mites, blister mites, mealy bugs, red spiders, certain scale, and other insects. Price: 8 ozs., 30c; 1 pt., 50c; 1 qt., 70c; 1 gal., \$1.95.

Emo-Nik

Here is a complete contact insect spray combining nicotine in its most active form with Emo, a high quality summer oil emulsion. Recommended for control of aphids, mealy bugs, red spider, thrip, white flies, rust mites, mildew, pine tree scale, certain scale insects, and certain other garden pests. Price: 4½ ozs., 40c; 1 pt., 70c; 1 qt., \$1.00; 1 gal., \$2.75.



End o Pest

End o Pest gives you three-way dust control over most garden pests—chewing insects, sucking insects and fungus diseases, in one operation. Just a few strokes of this dust gun and your plant is covered with a protecting film. Dust gun comes to you all filled and ready for use.
End o Pest Dust Gun and Cartridge.....65c
End o Pest Refill Cartridge.....50c

EVER GREEN Garden Spray

A powerful Pyrethrum spray. Deadly to many varieties of both sucking and chewing insects in the home garden—such as aphids (plant lice), leaf hoppers, cabbage worms, Mexican bean beetles, and rose slugs. Will not harm the most tender foliage. 1 oz., 35c; 6 oz., \$1.15; 16 ozs., \$2.45; 1 qt., \$4.10; 1 gal., \$12.60; 5 gals., at \$11.60 per gal.



Flit Surface Spray with 5% DDT

Is a residual spray that should be applied to walls, ceilings, screens and other surfaces. It kills insects over a long period of time. Pt., 30c; qt., 50c; gal., \$1.75.

Flit Aerosol Insect Bomb (DDT & Pyrethrum)

One of the most modern and easy to use ways to kill Flies, Mosquitoes and most flying insects on contact. Price, \$2.95.



Formacide

(Formaldehyde Dust)

A triple strength seed and soil disinfectant used as a control of damping-off also makes seedling plants stronger and healthier. Controls Oat Smut and seed-borne diseases of grain. ½ lb., 50c; 1 lb., 85c; 5 lbs., \$2.50; 25 lbs., \$10.00.

Formaldehyde

Recommended for protection against seed-borne diseases. Will prevent potato scab, oats smut and stinking smut of wheat, also onion smut. 1 lb., 40c; 1 qt., 75c; ½ gal., \$1.35; 1 gal., \$2.50. Ask for price on larger quantities.

Fruitone

Hormone spray for preventing preharvest drop of apples. Holds apples on the tree longer. Stops premature drop of flowers and leaves on vegetables. Spray for seedless tomatoes. 2/5 oz., 25c; 2-oz. can, \$1.00; 12-oz. can, \$5.00.

Garden Guard

Noninjurious to humans yet effective both by contact and as a stomach poison against insects. Especially recommended for use on cabbage, cauliflower, string beans, currants, and sweet corn.

Pyrethrum Garden Guard, 4 lbs., \$1.25.

Rotenone Garden Guard, 1 lb., 60c; 1-lb. pump gun, 75c; 6 lbs., \$1.20.

Old Formula Garden Guard, 1 lb., 30c.

Grafting Wax

This Grafting Wax has an even consistency which will give best results for sealing cuts or bruises in fruit and shade trees. ¼ lb., 20c; ½ lb., 35c; 1 lb., 65c; 5 lbs., \$2.25.

Grape Dust

A powder preparation which is very effective in destroying blights. Especially recommended for mildew on roses and grape vines. Preferable applied with dust-er. 1 lb., 40c; 5 lbs., \$1.50.

Kopper King (A Scientific Bordeaux Spray)

Kopper King is a basic copper sulphate, a fungicide requiring no lime to keep it from burning. Kopper King contains 50% copper, twice as much as ordinary copper sulphate (common bluestone). Can be used either as a liquid spray or combined with a carrier in making a homemade dust. Price: 1 lb., 45c; 4 lbs., \$1.00.

Kopper Queen (Mildew Spray)

A strong liquid copper spray for the control of mildew, leaf spot, and black spot on rose bushes, flowers, and many other kinds of foliage. Stainless, leaves no unsightly residue. Use as a liquid spray replacing Bordeaux Mixture and Sulphur. Price: ½ pint, 35c; pint, 60c; qt., 90c; gal., \$2.25.

Kopper Shield Pruning Paint

A liquid paint for treating trees, etc. ½ pint, 45c; pint, 85c; qt., \$1.50; gal., \$4.50.

Kryocide (Natural Cryolite)

Recommended by many Agri. Exp. Sta. as an excellent insecticide to combat biting and chewing insects, such as Bean beetle, Corn earworm, Cabbage worm, Cucumber beetle, Flea beetle, Potato beetle, Tomato worm, Canker worm, etc. Kryocide can be used as a dust or spray. Do not use with lime. 1 lb., 35c.

Lethane 440

An effective spray against red spider and mealy bug, as well as all sucking insects. 1 qt., \$2.00; 1 gal., \$5.50.

Lethane Spreader—1 gal., \$1.80.

Lime Sulfur Powder

For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, blotch, red spider and mite. Price, 1 lb., 40c; 5 lbs., \$1.55; 12½ lbs., \$2.00; 100 lbs., \$14.00.



Lime-Sulphur, Concentrated Solution

Convenient to use, free from sediment, requires no preparation other than stirring into water. One of the best remedies for San Jose scale. 1 gal., \$1.00; 5 gals., \$3.95. Barrel price on application.

London Purple

A favored insecticide for fifty years—now stronger and better than ever. For use on potatoes, sugar beets and many other shrubs and vegetables damaged by leaf-chewing insects. Price: ¼ lb., 15c; 1 lb., 30c; 4 lbs., 50c.

Loro

A thiocyanate contact insecticide that kills mealy bugs, red spider, chrysanthemum midge, thrips and cyclamen mite in the greenhouse. Pint size, \$2.00; 1 gal., \$10.00.

Meo-181, Kills Crab Grass, Weeds

Destroys dandelion, plantain, crab grass, and other common weeds. Complete instructions with every package. 1 gallon treats 200 sq. ft. Qt., 65c; gal., \$1.55; 5 gals., \$7.25.

Naphthalene Flakes

Is used for the repelling of such soil pests as: wire worms, maggots, moles, gophers, etc. It can be used without burning or flavoring even the most tender root crops. Highly recommended by bulb growers for protection against thrips, white fly and certain other insects.

Refined. 1 oz., 10c; 2 oz., 15c; ½ lb., 25c; 1 lb., 35c; 5 lbs., \$1.25; 10 lbs., \$2.40; 25 lbs., \$5.00; 100 lbs., \$17.50.

Nico Fume Liquid

A highly refined solution of free nicotine for greenhouse fumigation. 1 lb., \$2.60; 2 lbs., \$3.45; 8 lbs., \$11.95.

"Nico-Fume" Pressure Fumigator

(Tobacco Powder)

A greenhouse fumigant, effective for destroying aphids, thrips, etc. The one-pound can will fumigate about 25,000 cubic feet—a house 80 to 100 feet long, 25 feet wide, averaging about 10 feet high.

1 lb., \$1.00; six 1-lb. cans, \$4.45; case of twelve 1-lb. cans, \$7.95; ½ lb., 60c; six ½-lb. cans, \$2.75; case of twelve ½-lb. cans, \$4.60.



No-Crow

Is used to prevent crows, blackbirds, gophers and other rodents from pulling and eating seed corn after planting. $\frac{1}{2}$ pt., 50c; 1 pt., \$1.00.

Ogen Products

Astogen. A soil treatment in powder form for treatment of asters and other plants. 2 lbs., 75c.

Fume-Ogen. A dog and cat repellent in powder form, effectively repels animals from garden, greenhouse and home. 8-oz. shaker can, 50c.

Fungtrogen. Controls mildew, black spots and other fungus diseases on roses and other plants; also stimulates vigorous plant growth. 4-oz., 45c; 8-oz., 75c; 1 pt., \$1.25; 1 qt., \$2.00; 1 gal., \$6.00.

Mologen. A powder to rid your place of moles the easy way. Highly recommended. $\frac{1}{2}$ -lb. can, 50c.

Terogen. For autumn-winter soil treatment. Will give your roses a better start next year. In successful use for more than twenty years. 1 lb., 75c; 2 lbs., \$1.25; 5 lbs., \$2.75.

Tri-Ogen Liquid Spray gives complete protection against all plant insects and diseases, including black-spot, mildew, aphids (plant-lice), slug worms, caterpillars, etc. Especially recommended for roses, asters, snapdragons, carnations, hollyhocks, delphiniums, phlox, chrysanthemums, zinnias, dahlias, and many other plants.

E-Kit. Protects 6 to 10 roses for season.....\$0.90

A-Kit. Protects 12 to 20 roses for season..... 1.50

B-Kit. Protects 50 to 80 roses for season..... 4.00

C-Kit. Protects 100 to 160 roses for season..... 6.00

D-Kit. Protects 400 to 600 roses for season..... 20.00

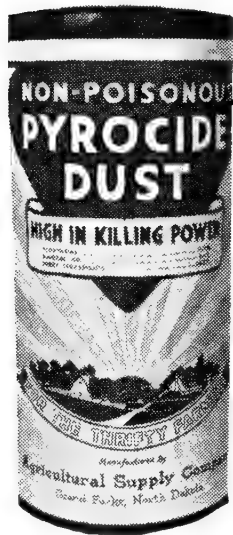
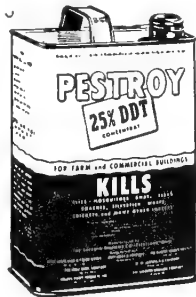
Tri-Ogen Dust. For those who prefer to dust rather than spray, Tri-Ogen Dust serves the same three-way purpose as Tri-Ogen Spray. 1 lb., 65c; 5 lbs., \$3.00.

Add Postage on Mail Orders.

Pestroy

Pestroy 25% DDT concentrate. A low cost concentrate for control of insects in barns, poultry houses, dairies, factories, washrooms, etc. Price: qt., \$1.49; 1 gal., \$4.95; 5 gal., \$22.25.

Pestroy DDT Liquid coating for control of flies, mosquitos, ants, bedbugs, cockroaches, etc. Apply with brush on screens, doorways, etc. Pt., 69c; qt., \$1.19; 1 gal., \$4.20; 5 gals., \$20.50.



Pyrocide Dust

A Pyrethrum non-poisonous dust insecticide, so powerful that it controls squash bug. Used by growers of fruits and vegetables universally for controlling aphids, cabbage worms, Mexican bean beetles, cucumber beetles, leaf hopper, leaf ticks and many other chewing and sucking insects. 1 lb., 45c; 5 lbs., \$1.75; 50 lbs., \$11.25.

Paris Green

For combating the potato bug and other chewing insects. Price: $\frac{1}{4}$ lb., 25c; 1 lb., 65c; 5 lbs., \$3.00; 25 lbs., \$12.00.

P. D. Spray

The best spray for the box elder beetle. Kills mosquitoes, spiders, flies, moths, fleas, ants, bedbugs, roaches. 12 oz., 25c; pt., 35c; 1 qt., 60c; $\frac{1}{2}$ gal., \$1.10; 1 gal., \$2.00.

Pomo-Green

A leaf-green sulphur dust, containing Arsenate of Lead. A highly effective combined fungicide and insecticide. 1 lb., 50c; with nicotine, 1 lb., 75c.

Pyrox (With Nicotine)

For the control of many chewing and sucking insects, blight and plant diseases. 1 lb., 60c; 5 lbs., \$2.00.

Rabbit Repellent

Here is a powder when applied around plants will discourage any ambitious rabbit. 1 lb., 45c; 5 lbs., \$1.75.

Red Arrow Garden Spray

Non-poisonous pyrethrum spray containing soap. Kills many varieties of both chewing and sucking insects. 1 oz., 35c; 4 ozs., \$1.00; pt., \$2.85; qt., \$5.50.

Red River Potato Mix—See Page 17

Rodent Repellent

Protects fruit trees and shrubbery from rabbits, mice and other rodents. It will remain effective throughout the winter. Does not injure any tree or shrub. **Liquid**, 1 qt., \$1.25; 1 gal., \$4.00.

ROOTONE

Reg. U. S. Pat. Off.

faster, better, more successful rooting. Mix flower, vegetable or grass seed with Rootone before planting to give faster growth and stronger roots. Easy to use. $\frac{1}{4}$ oz. packet, 25c; 2-oz. jar, \$1.00; 1-lb. can, \$5.00.

A Hormone Powder for Rooting Cuttings

Dip cuttings in Rootone before planting to give faster growth and stronger roots. Easy to use. $\frac{1}{4}$ oz. packet, 25c; 2-oz. jar, \$1.00; 1-lb. can, \$5.00.

ACME Complete



ROSE SPRAY

Will Not Discolor Foliage.

A spray treatment for roses and flowers of all kinds. Eliminates guesswork. Made to combat all the three major classifications of blight and insect pest and solve the entire spraying problem. No other spray needed. Complete all-round protection. Surprisingly economical.

No. 3 protects 7 to 12 bushels all season.....\$0.95

No. 6 protects 15 to 25 bushels all season..... 1.50

No. 24 protects 60 to 100 bushels all season..... 4.00

No. 48 protects 120 to 200 bushels all season..... 6.00

No. 96 protects 240 to 400 bushels all season..... 9.75

Rotocide

Both a contact and stomach poison. Kills mealy bug, beetles, thrips, aphids, etc. 1 oz., 35c; 8 ozs., \$1.00; 1 pt., \$1.75; 1 qt., \$3.00; 1 gal., \$8.00.

Rotenone Garden Spray (NNOR)

This Double Action Garden Spray makes the killing power of Rotenone more effective. It penetrates the hairy and waxy covering of insects. 1 oz., 35c; 6 oz., \$1.00; 16 oz., \$2.15; 1 gal., \$13.50.

Dubay Seed Disinfectants

Arasan. For most vegetables and peanuts; protects seed from decay and reduces damping-off. 1 oz., 16c; 8 oz., 80c; 4 lbs., \$5.16.

Semesan—for vegetable and flower seeds. Prices: $\frac{1}{8}$ oz., 12c; 2 oz., 45c; 12 oz., \$2.10; 4 lbs., \$10.10.

Semesan Bel—for seed potatoes. A quick, easy dip treatment that eliminates scab, rhizoctonia and black leg diseases. Increases yield and improves quality. Inexpensive. One pound treats 60 to 80 bushels of seed. Prices: 2 oz., 35c; 1 lb., \$1.85; 4 lbs., \$6.33.

Semesan Jr.—for field and sweet corn seed. Use two oz. per bushel of seed. Prices: $1\frac{1}{4}$ oz., 17c; 12 oz., 62c; 6 $\frac{1}{4}$ lbs., \$4.16; 25 lbs., \$13.85.

Ceresan—for wheat, oats and barley. One-half ounce treats one bushel of seed. 4 oz., 35c; 1 lb., 90c; 4 lbs., \$3.00; 25 lbs., \$16.65.

Scram, Dog Repellent

In powder form in an easy-to-use shaker tin. Just shake powder on lawns or around shrubs or building where dogs are a nuisance. 8-oz. can, 50c.

Sheps Plant Spray

An improved, non-poisonous spray that kills and controls nearly all garden insects. No soap needed. $\frac{1}{2}$ oz., 10c; $1\frac{1}{2}$ oz., 25c; $\frac{1}{2}$ pt., 75c; 1 pt., \$1.35; 1 qt., \$2.25.

Slug Shot

Very popular insecticide; harmless to humans, or fruits and vegetables treated. Very effective in destroying cabbage and cauliflower worms, potato bugs and beetles, etc. 1 lb., 40c; 5 lbs., \$1.70; 25 lbs., \$6.50.

Snarol, Metaldehyde, Arsenical Bait

Snarol kills cutworms, sow bugs, grasshoppers, slugs, etc. A ready prepared poison that destroys those pests quickly. 1 lb., 25c; 2 $\frac{1}{2}$ lbs., 50c; 10 lbs., \$1.50; 50 lbs., \$5.50.

Spray Soap

A fish oil soap effective in destroying many sucking insects. If used with nicotine it greatly increases the value of that spray. Price: 1 lb., 35c; 7 $\frac{1}{2}$ lbs., \$2.15.

Stop—for tree banding

Is a sticky substance used to band trees, shrubs and vines to prevent insects from crawling up to the foliage. 6 ozs., 35c; 1 lb., 65c; 5 lbs., \$3.00; 10 lbs., \$5.00.

Insecticides and Fungicides—Cont'd.

Sulphate of Iron, Copperas (Weed Killer)

Kills dandelions and weeds. Dilute 1 lb. to 1½ gallons of water. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.50.

Sulphur Dusting, Wettable

Can be used as a dust or liquid spray. Recommended to control mildew, leaf spot, black spot and rust on rosebushes, chrysanthemums, snapdragons, carnations, and certain other foliage; also red spiders on evergreen. Price: 2-lb. carton, 42c. In bulk: 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.25; 50 lbs., \$4.00; 100 lbs., \$7.00.



Tartar Emetic

A highly recommended spray for gladioli thrip. Spray once a week after plants reach 6 inches in height with the following mixture: 8 level tablespoonfuls Tartar Emetic, 1 lb. brown sugar to 5 gal. water. Do not spray open blooms. 1 oz., 25c; ¼ lb., 55c; ½ lb., 95c; 1 lb., \$1.50.

Terro Ant Kill

One of the oldest and best ant killers, in syrup form. Ants disappear over night. 25c and 50 cent sizes.

Terro Roach Killer

Kills roaches and water bugs quickly. 4-oz. can, 35c.

Tobacco Dust

Gould's Tobacco Dust may be used in the seed bed to prevent maggots. Especially valuable against root lice on asters and other plants. 1 lb., 20c; 3 lbs., 50c; 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.00; 100 lbs., \$7.50.

Tobacco Clippings. Same prices as above Tobacco Dust.

Acme Tomato Dust

A safe and effective dust for control of horn worm, fruit worm, early blight and late blight on tomatoes. Can also be used as a general garden dust on many other vegetables, also flowers and shrubs. 1 lb. Pump-gun package, 65c; 1-lb. sifter top can, 50c; 4-lb. bag, \$1.05.



TRANSPANTONE

Reg. U. S. Pat. Off.

The vitamin-hormone stimulant. 1 oz. makes 1,000 gallons solution. The most effective form of Vitamin B1. Use

on all kinds of flowering plants, vegetable plants, shrubs, seedlings or trees when planting. Multiplies roots and makes better plants. Effective in hard or soft water. ½ oz., 25c; 3 ozs., \$1.00; 1 lb., \$4.00.

Triad (Kix)

A combination fungicide and contact insecticide for the control of black spot, mildew and insects on roses. ½ pt., \$1.00.

Tree Tanglefoot

Should be applied to trees in March and April here in the Northwest, to control the canker worm and prevent it from stripping the leaves from shade and fruit trees. It's easy to control the canker worm if you do it early. Trees breathe through their leaves, when leaves are eaten off, the tree dies. Tree Tanglefoot also controls ants and other worms and moths from crawling up the tree. 6 ozs., 45c; 1 lb., 80c; 5 lbs., \$3.75; 10 lbs., \$7.00; 25 lbs., \$15.00.



"43" for the Tree

Liquid or plastic compounds for use in tree surgery in healing injury or wounds in trees or shrubs. Use Plastic "43" for cavities—Liquid "43" to paint over surface wounds, pruned trees at sawed off limbs, etc. Also to coat around bottoms of trees to aid in preventing rabbits, small animals and insects from attacking the tree.

Plastic. 1 lb., 45c; 2½ lbs., 75c; 5 lbs., \$1.25; 10 lbs., \$2.00; 50 lbs., \$6.25.

Liquid. 1 qt., 75c; ½ gal., \$1.25; 1 gal., \$2.00; 5 gals., \$6.25.

Vapotone Spray

A newly developed product primarily for the control of red spider, mites and aphids. Has also proven effective against leaf eating worms, beetles, leafhoppers, immature scale insects, thrips, etc. ½ gal., \$7.75.

Vegetable and Flower Garden Dust

A dust or spray containing nicotine for many common varieties of sucking insects, and arsenicals for leaf eating insects for the home vegetable and flower garden. 1-lb. carton, 40c; 4-lb. bags, \$1.25.

Volck

Volck Oil Spray. New and improved. 4-oz., 25c; 1 pt., 50c; 1 gal., \$2.25.

Garden Volck. To control aphids, thrips, scale, mealy bug, cyclamen mite, leaf hopper, red spider, white fly, leaf spot, mildew, rust, squash bug, etc. 1 pt., \$1.00; 1 qt., \$1.50.

Nursery Volck. 1 qt., 75c; 1 gal., \$2.25; 5 gal., \$8.50.

White Hellebore

Especially valuable in controlling worms on ripening fruit as it loses its poisonous effect within a few days after application. ¼ lb., 60c; 1 lb., \$1.75.

WEED KILLERS

Weed Killer, Acme

Destroys weeds and all vegetation. The kind to use on driveways, clay courts, paths, etc. Also widely used in spotting out dandelions, plantain, and other noxious lawn weeds by application undiluted, using a weed cane or squirt-bottom oil can. Pt., 50c; qt., 70c; gal., \$2.00.

Weed Killer, Ammate (Ammonium Sulfamate)

Highly recommended for the killing of poison ivy. Also kills ragweed, Russian thistle, Sow thistle, Canada thistle and other noxious weeds. Is non-poisonous and will not harm livestock or other animals in sprayed area. Sprayed soil remains sterile for only a short time and leaves no permanent soil effects. The fixed nitrogen in Ammate enriches the soil. 2 lbs., 75c; 10 lbs., \$3.00.

Weed Killer, Hammonds

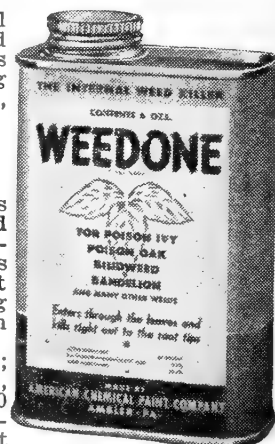
Destroys weeds, poison ivy and all vegetation on roadways, paths and tennis courts. Dilute with 40 parts water and apply with sprinkling can. Qt., 70c; gal., \$2.00; 5 gals., \$8.00.

Weedone

(2,4D dichlorophenoxyacetic acid)

The new scientific weed killer. Kills poison ivy, poison oak, bindweed (wild morning glory), Japanese honeysuckle, and many other noxious weeds. Sprayed on the leaves, it travels down to the root tips, killing the whole plant. Kills weeds in lawn without injury to lawn.

6 oz. bottle (covers 1000 sq. ft.), 75c; 1 qt. bottle (covers 5,000 sq. ft.), \$2.50; 1 gal. bottle (covers 20,000 sq. ft.), \$7.50; 5 gal. can (covers 100,000 sq. ft.), \$30.00; 54 gal. drum, at \$5.00 per gal.



EndoWeed

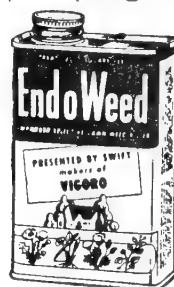
EndoWeed literally sprays weeds right out of your grass. The whole weed dies, leaves, stems, roots, in a week or so. Your grass continues to grow without a setback. ½ pint covers 2,000 sq. ft. of lawn area. ½ pt., \$1.00; 1 qt., \$2.75; 1 gal., \$8.50.

Weedust

An easy way to kill lawn weeds, just dust with Weedust, the 2,4D weed killer. Kills dandelions, plantain, wild morning glory, chickweed, mustard and other weeds without injury to your grass. 1 lb. shaker top can, 75c.

Weed-no-More

Weed-no-More will free an average lawn of weeds at a cost of \$1.00. It kills broad-leaved weeds without harm to most common lawn grasses. Mixes with water and is easily sprayed on the lawn. The \$1.00, 8 oz. pkg. treats 1,600 square feet. The qt., \$2.98, covers 6,400 square feet.



Zotox—Kills Crab Grass

Zotox, a new liquid Chemical, kills both the plant and seeds of Crab Grass and checks reinfestation. DOES NOT DESTROY LAWN GRASSES and is non-injurious to soil. Proved by 4 years of tests. This new easy method does away with laborious raking and weeding. Simply mix Zotox with water and spray on. A 16-oz. bottle treats 2,000 sq. feet. For "spot" treatment of small patches it goes much farther. Prices: 8-oz. bottle, \$1.00; 16 ozs., \$1.50; 32 ozs., \$2.50; 5 lbs., \$4.50. Ask for free leaflet.



SPRAYERS

Hudson Perfection

High pressure sprayer for spraying small orchards, truck gardens, flowers, shrubbery, shade trees and other foliage. Easily and economically applies whitewash, cold-water paints, wall sizing, etc. Cap. 4 gals. Galv. tank, each, \$9.50.

Hudson Junior

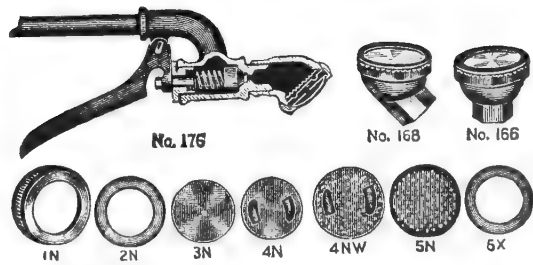
Similar to the Perfection except capacity which is 2½ gals. Galv. tank, each, \$7.50.

Hudson Climax

Can be used for all classes of work in the truck garden, orchard, poultry house, dairy barn, hog pen, yard, etc. Cap., 3½ gals. Open Top Type. Price: Galv., each, \$7.75.

FUNNEL TOP TYPE.

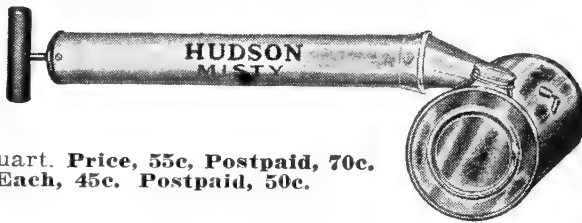
Leader No. 192—Galv., 3¾ gal. cap. \$6.25



Hudson Sprayer Parts

We carry a complete line of parts and washers.

The Misty



Cap., one quart. Price, 55c. Postpaid, 70c. Pint size. Each, 45c. Postpaid, 50c.

ARNOLD GARDEN HOSE SPRAYER



The Arnold Garden Hose Sprayer attaches to your garden hose in place of the regular nozzle. Special Soluble Arnold Cartridges for insect and plant disease control fit the cartridge chamber. As water in the hose passes through the chamber, the cartridge is dissolved in sufficient quantity to provide the correct control solution.

Complete Sprayer, chromium finish.....\$5.50
Arnold Cartridges

All listed below, 35 cents each, 12 for \$4.00.

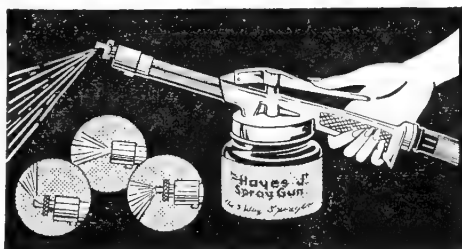
Pyr-O-Spray	Rot-O-Spray	Sulph-O-Spray
Funguspray	Arsen-O-Spray	Weed-O-Spray
DDT	P-R (Pyrethrum-Rotenone)	



Hayes-ette Garden Sprayer

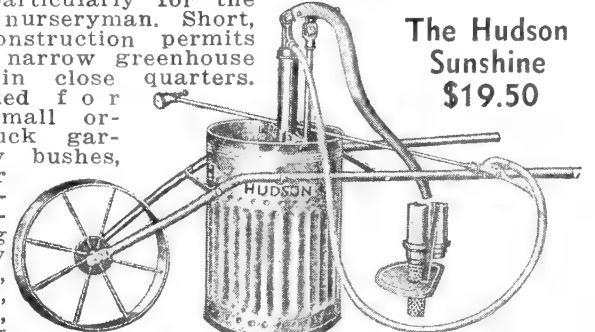
A compact sprayer weighing only a pound when filled. Simply put in up to 1½ gals. of mixed spray material and attach to garden hose. Sprays all liquid spray materials free from soaps. Each, \$3.50. Extra jar, 25c.

Hayes Jr. Spray Gun



A popular 3-gal. capacity sprayer to attach to garden hose. Operates on water pressure from 30 to 175 pounds. Sprays liquids and most wettable powders, up, down or sideways. Each, \$6.95. Extra jar, 35c.

The Hudson Sunshine
The Hudson Sunshine \$19.50
Designed particularly for the florist and nurseryman. Short, compact construction permits its use in narrow greenhouse row and in close quarters. Also adapted for spraying small orchards, truck gardens, berry bushes, etc. for whitewashing and disinfecting poultry houses, dairy barns, hog pens, spraying stock, dips and poultry remedies, treating ornamental shrubbery, flowers and lawns. 12½ gals. capacity.



Dobbins Sprayers

These dome top tanks are easy to drain. The strong sturdy tanks are tested to many times operating pressure. Lid easy to open, easy to seal. Double grip, handle high pressure with little effort. Adjustable nozzle. Sprays at any angle. Has automatic shut-off nozzle.

No. 44G—Galv. tank, capacity 4 gallons	\$10.10
No. 44B—Copper tank, capacity 4 gallons	\$18.40
No. 34G—Galv. tank, capacity 3½ gallons	\$7.80
No. 21G—Galv. tank, capacity 3½ gallons	\$6.35



Dobbins Flame Sprayer

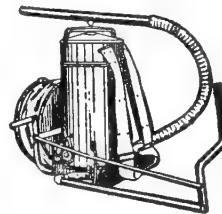
The ideal outfit for killing annual and perennial weeds and grasses, burning brush and rubbish, removing weeds from driveways, roads, fence rows, etc. The intense heat disinfects poultry houses, and yards, rabbit hutches, dog houses and lots. Price, \$19.25.

DRY POWDER DUSTERS

Beauty Dusters

Authorities consider this one of the most efficient dusters ever made. Throws dust to top of 25-foot trees. Does not choke or clog. Dusts truck crops, top and underside of leaves at an average walking speed.

American Beauty\$25.00



Hudson Admiral Duster

Effective and economical. Price, 4½-inch chamber with 24-inch extension, \$1.50.



Hudson Cadet Duster

Adapted for use with all insect powders. Also for the garden or poultry house dusting. Each, 60c; postpaid, 75c.

FEED LAWNS and FLOWERS to grow them successfully experts agree!

The millions of grass plants that together make up a lawn are living things. They need food to grow into sturdy, weed-free turf. They must get their food from the soil but it is poor economy to let them struggle for it. Make sure your lawn,

flowers, shrubs and trees have all the nourishment they need. FEED THEM with VIGORO, complete plant food. It is economical to use. Four pounds completely feeds 100 square feet of lawn or garden area.



FEED VEGETABLE GARDENS, TOO!

Victory Gardens proved the advantage of feeding all vegetables with this complete plant food. It helps increase yields, hastens maturity, improves flavor and assures you a harvest of vegetables rich in minerals. Clean, odorless and easy to use. It is made by Swift & Company.

PRICES

100 lbs.---	\$4.00	10 lbs.---	\$0.85
50 lbs.---	2.50	5 lbs.---	.45
25 lbs.---	1.50	Tablets ---	.10

FERTILIZERS

When not priced for larger amounts, see Special Yellow Price List. Prices subject to change without notice.

Agricultural Gypsum or Land Plaster

Is a fertilizer containing calcium and sulphate sulphur. Also used as a dust against the cucumber beetle and squash bug by dusting on and around the plants when infested. 5 lbs., 25c; 25 lbs., 50c; 100 lbs., \$1.20.

Aluminum Sulphate

For making the soil acid, needed for certain plants. Use one lb. to 10 sq. ft. of surface. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c.

Sheep Manure—Pulverized

A quick acting plant food for general use about the lawn, flower beds or garden. For lawns, use 50 pounds per 1,000 square feet. 5 lbs., 45c; 10 lbs., 65c; 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$3.00.

Sulphate of Ammonia

A valuable fertilizer for all plants in which rapid growth or large leaf development is desired. See Yellow List for prices.

Hardwood Ashes

Valued because of its high potash content. Has a tendency to drive away insects. 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.35; 50 lbs., \$2.00; 100 lbs., \$3.75.

Soot

Used to produce good color in plants, also repels grubs and other soil pests. 5 lbs., 60c; 10 lbs., \$1.00.

Steamed Bone Meal Special

(2-26-0)

An effective fertilizer in gardens and orchards. Popular among greenhouse men for potting and for fertilizing bench stock. Apply 50 pounds per cubic yard for benching, pot plants, etc. 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.50.

Imported Horticultural Peat

It adds organic matter, improves the texture, conserves moisture and aerates the soil. Prices on request.

Blood Meal

13½% organic nitrogen. Readily available, finely ground. Use under glass where quick response is desired. 2 lbs. to 4 lbs. per 100 square feet. 5 lbs., \$1.50; 10 lbs., \$2.25.

Fertilizers and Plant Foods continued on next page.
See Yellow List for complete list of Fertilizers.

for a BEAUTIFUL, LUXURIANT LAWN . . .

USE WHAT THE GOLF CLUBS USE

MILORGANITE Fertilizer

Golf clubs use more Milorganite than any other fertilizer—because it is the ideal turf fertilizer also excellent for shrubs, trees, and gardens. This scientifically prepared, natural plant food is rich in long-lasting organic nitrogen—which is the most important element needed for healthy plant growth. In addition, Milorganite contains more than 15 other valuable elements essential to plant vigor and health. Only one application in spring and fall necessary. Non-burning, long-lasting, clean—easy to apply. 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.35; 50 lbs., \$2.25; 100 lbs., \$3.60.



Fertilizers and Plant Foods—Continued

Adco (Makes artificial manure)

Adco is a powder which when mixed with dry leaves or almost any non-woody vegetable waste and kept moist, converts the mass into artificial manure—equal to the farmyard product, but free from foul odor. 7½ lbs., \$1.00; 25 lbs., \$2.50; 50 lbs., \$4.75; 100 lbs., \$9.00.

Agricultural Lime

Excellent for sweetening acid soils. 5 lbs., 35c; 10 lbs., 55c; 25 lbs., 75c; 50 lbs., \$1.00; 100 lbs., \$1.90.

Pulverized Limestone

Sweetens, also improves the texture of the soil and liberates nitrogen and other plant foods, and stimulates bacterial action. 5 lbs., 30c; 10 lbs., 45c; 25 lbs., 55c; 100 lbs., \$1.00.

Kem, Liquid Plant Food

A complete, balanced plant food containing all the needed elements for a perfect plant food. Merely dilute with water and apply. Use on lawns, bushes and shrubs, seedlings, soilless gardening, vegetables and flowers, house plants, etc. 4 oz., 10c; 12 oz., 25c; quart, 50c; gallon, \$1.00.

Rose Food

An organic no-filler plant food of dried blood, fish scrap, bone meal, Guano, potash, cottonseed meal, super-phosphate, and powdered poultry manure. 5 lbs., 65c; 10 lbs., \$1.25; 25 lbs., \$2.50; 100 lbs., \$8.50.



Hyponex

A complete starting and growing solution and balanced plant food, soluble in water. Will grow plants in soil, sand or water. Hyponex contains Vitamin B1. 1 oz., 10c; 3 oz., 25c; 7 oz., 50c; 1 lb., \$1.00.

G & O Dahlia & Gladioli Plant Food

An organic plant food, especially for dahlias and gladioli. Analysis: 5% nitrogen, 6% phosphorus, 15% potash. Price, 5 lbs., 65c; 10 lbs., \$1.15.

Plantabbs—with Vitamin B-1

The sensationally new plant food in tablet form, containing the newly discovered element B1, for plants and flowers, both indoors and gardens. Produces amazing results. 36 tablets, 25c; 90 tablets, 50c; 240 tablets, \$1.00; 850 tablets, \$2.75.

Magic Green Fingers is a B plant stimulant for growth and beauty. Especially good to use on house plants or window boxes, where the B vitamin is so often lacking. Simply insert Magic Green Finger into soil of flower pot or for each plant in window box. 12 Fingers, 10c; 36 Fingers, 25c. Add 5c on either for mail orders.



Magic Green Fingers



Vigoro Tablets

Concentrated—Plant Food, especially adapted for house plants and window boxes. 24 tablets, 10c; postpaid, 15c.

Sudbury Soil Test Kits

You cannot grow a successful garden unless there is sufficient plant food in the soil. A Sudbury Soil Test Kit will indicate what is lacking, if anything.

Acid-Alkaline Test

Kit\$1.00
Home Gardener, 20-test kit\$2.50
New Club Model, 50-test kit\$4.75
Horticultural size, 100-test kit\$12.50
Professional Model, 200-test kit\$22.50
Refills are available. Specify kit number.



RODENT DESTROYERS

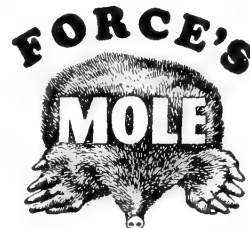
Antu

This remarkable new rat killer is so powerful that one lick kills. 1 pkt., 35c; 1½ oz., 65c; 4 oz., \$1.00; 8 oz., \$2.50; 1½ lbs., \$4.00; 5 lbs., \$14.00.

Sweeney's Poison Wheat

Sure death to rats, mice, moles, and gophers. Price, 15c, 30c, and 60c, carton.

Force's Mole Killer Pellets will destroy the pests. Compounded from foods the moles naturally eat and containing a poison that is deadly to them, these pellets reach the pests right where they live—in the ground. And that's where they die. One application may be sufficient. 35-pellet size, 25c; 75-pellet size, 50c; 185-pellet size, \$1.00; 875-pellet size, \$3.25.



KILLER

Gopher Death

A poison in tablet form—easy to use. "Gopher Death" is made of food the rodents love and seek and the poison is so carefully concealed in the tablets they do not detect it. Kills pocket gophers, ground squirrels, etc. Price, 75c.

Cyanogas (Calcium Cyanide)

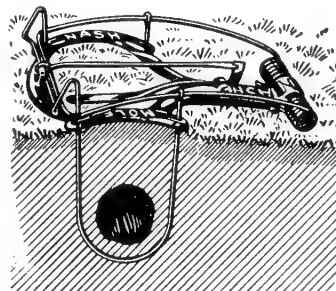
Cyanogas A. Dust. For ants, moles, rats, gophers. Grade "A" Cyanogas is recommended because of its ease of application and high efficiency. Highly recommended for rat control. 4 oz., 30c; 1 lb., 75c; 5 lbs., \$3.00.

Steel Animal Traps

Chain attached for catching rats, gophers, weasels, skunks, etc. Size 0, 30c; size 1, 35c; size 1½, 50c; size 2, 75c. Add 15c on mail orders.

The Nash Mole Trap

Recommended by U. S. Biological Survey, catches the mole in all kinds of ground when properly set. Clods or stones cannot prevent perfect operation. This trap catches the mole when it comes from either direction. If properly set, you cannot fail with the Nash Mole Trap. \$2.50 postpaid.



Force's Gopher Killer

Force's Gopher Killer made in ready-to-use pellets is easy to use. Has no harmful effect on the soil or vegetation. Reaches these pests right where they live—in the ground. And that's where they die. Prices: 60-pellet size, 50c; 175-pellet size, \$1.00.

Gould's Minnesota Gopher Poison

A pocket gopher poison put up according to the formula recommended by the University of Minnesota. If you are troubled with pocket gophers try this proven remedy. Price, 50c.

Red Check Rat and Mouse Exterminator

A new trade-mark on an old favorite. Simple and easy to use. Prices: 25c, 50c and \$1.00 sizes.

Rat-Bombs

Relatively harmless to humans and domestic animals, yet very effective in killing rats. 15c and 50c sizes. Postage, 10c extra.

K-R-O (Kills Rats Only)

This wonderful exterminator, K-R-O, will rid your premises without endangering your pets, livestock, poultry, etc. Is harmless to animals other than rats and mice. Price, 75c. Ready mixed bait, 22 oz., \$1.00.

Mouse and Rat Seed

A seed treated with a chemical, that due to its peculiar flavor the mice or rats eat in preference to anything else. As soon as they eat the kernel, they go outside for air and water and die. Has been tested and approved by the Good Housekeeping Institute.

Mouse Seed. 1¼-oz. pkg., 25c; 1 lb., \$1.50.

Rat Seed. 1-lb. carton, 50c.

Stearn's Electric Rat and Roach Paste

To kill rats and mice apply Stearn's Paste on bread, cheese, meat or other food, for bait. Will also kill gophers and other rodents. Price, 35c; 40c by mail.

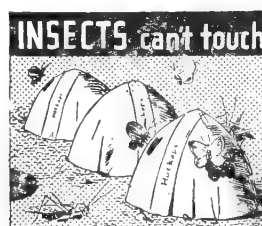
MOLITE RODENT KILLER

Non-inflammable "gas" cartridge that you simply light and insert into tunnels or holes of rats, moles, gophers, etc. Very effective. 15c each; dozen, \$1.50; postpaid, \$1.60.

GARDEN & FARM EQUIPMENT

Planet Jr. Equipment

In this postwar period, supplies of Planet Jr. seeders, cultivators, wheel hoes, etc., are so limited and uncertain that it is impossible to list in this catalog, when this book was being printed in January. If interested, please write or call if convenient, in season.



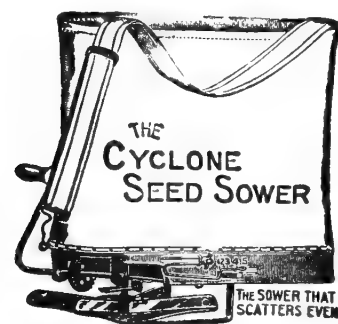
Hotkaps

Help you grow earlier, hardier vegetables, flowers. Hotkaps—strong little hothouses—protect plants from destructive frost, storms, insects. University tests prove Hotkaps increase yield 18% to 51% nearly double early marketable yield, ripen crops 3 weeks earlier for highest prices. Quick, easy to set. 100 million used. Premium profits pay for them many times over.

25 Hotkaps with setter....\$0.60
100 with setter (wt. 5 lbs.).. 2.20
250 with setter (wt. 11 lbs.).. 4.15
1000 Hotkaps (wt. 26 lbs.)....12.00
5000 Hotkaps at per 1,000....11.75
Postage extra on mail orders.

'TWIST-EMS' — Help you support plants quickly.

A twist of the wrist and the plant is tied. Twist-ems are dark green strong tapes with wire reinforcing that makes perfect plant ties. Used by vegetable and market gardeners as a bunching tie, and for tomato, berry and flower growers for staking and bunching. A time and labor saver. Price, 7-inch size, 250, 60c; 1,000, \$1.50; 5,000, \$6.95; 25,000, \$31.75. Pkg., 125, 8 inch, 35c. (Postage extra on mail orders. 1,000 weigh one pound.)



Cyclone Seed Sower

The Cyclone can be used for sowing clover, timothy, alfalfa, lespedeza, Sudan grass, oats, wheat or any other seed that is sown broadcast. Price, \$3.50.

The Horn Seed Sower

Will sow all smooth seeds like alfalfa, clover, timothy, lespedeza, etc., any desired amount per acre. Easily operated. Price, \$1.25.

Weatherproof Pencil

Special rain and weatherproof pencil. Each, 10c.

Clay Pots

We carry a complete line of earthenware flower pots from 2 to 8 inch sizes. Price on request. None sent by mail.

Raffia (Natural or Green)

The best tying material for plants. Also used for basket making. **Natural:** 1/2 lb., 45c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00. **Green:** 1/4 lb., 50c; 1/2 lb., 95c; 1 lb., \$1.75. Postage extra on mail orders.

Caulking and Glazing Gun

Prices, \$3.00 to \$5.00 each.

Hotbed and Greenhouse Putty

\$1.55 to \$3.00 per gallon; 5 gallons \$7.25 to \$14.50.

Peerless Glazing Points

1,000 to the box at 85c.

Bird's Water Proof Paper Flower Pots and Plant Bands

These pots are used in transplanting any kind of plants in the greenhouse and hotbeds.

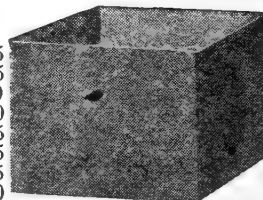


Red Paper Pots

	Doz.	25	100	500	1000
2 in..	\$0.20	\$0.30	\$0.85	\$3.50	\$6.00
2 1/4 in..	.20	.30	.85	3.50	6.00
2 1/2 in..	.20	.35	.95	3.50	6.10
3 in..	.20	.35	1.00	4.00	6.85
3 1/2 in..	.25	.40	1.25	5.00	9.15
4 in..	.30	.50	1.50	5.50	10.40
5 in..	.35	.60	1.75	7.00	13.30
6 in..	.40	.75	2.00	9.00	16.90

Green Paper Pots

	Doz.	25	100	500	1000
2 in..	\$0.25	\$0.40	\$1.25	\$4.50	\$8.75
2 1/4 in..	.25	.40	1.25	4.50	8.75
2 1/2 in..	.25	.45	1.50	5.25	9.40
3 in..	.30	.50	1.60	5.75	10.60
3 1/2 in..	.35	.60	2.00	7.50	14.05
4 in..	.40	.65	2.25	8.50	16.55
5 in..	.45	.85	3.00	12.00	22.85
6 in..	.50	1.00	3.50	15.00	29.30



Growtex Plant Bands

	Doz.	25	100	500	1000
1 3/4 x 1 3/4 x 2 1/2	.....\$0.15	\$0.20	\$0.55	\$1.85	\$2.90
2 x 2 x 2 1/2	......15	.25	.60	2.00	3.25
2 x 2 x 3	......15	.25	.65	2.25	3.75
2 1/2 x 2 1/2 x 3	......20	.30	.70	2.50	4.15
3 x 3 x 3	......20	.30	.75	2.75	4.55
3 x 3 x 4	......20	.35	.80	3.50	5.90

Vita—Band A

1 ¾ x 1 ¾ x 2 ½	.....	\$0.15	\$0.25	\$0.60	\$2.75	\$4.25
2 x 2 x 2 ½	.....	.15	.25	.65	3.00	4.70
2 x 2 x 3	.....	.15	.25	.70	3.10	5.05
2 ½ x 2 ½ x 3	.....	.20	.30	.75	3.20	5.20
3 x 3 x 3	.....	.20	.30	.80	3.75	6.30
3 x 3 x 4	.....	.20	.35	.85	4.25	7.35



Garden, Pot and Tree Labels

	Doz.	Painted 100	Painted 250	Plain 1000	Plain 1000
Iron Wired Tree Labels,					
3 1/2 inches	\$0.10	\$0.65	\$1.25	\$4.00	\$3.75
Pot Labels, 4 inches.....	.10	.65	1.25	3.95	3.30
Pot Labels, 5 inches.....	.12	.75	1.35	4.35	3.65
Pot Labels, 6 inches.....	.15	.80	1.50	4.95	4.00
Pot Labels, 8 inches.....	.18	1.00	2.25	7.50	6.00
Garden Labels, 8 inches..	.25	1.50	3.00	11.00	....
Garden Labels, 10 inches..	.35	1.75	3.50	13.00	....
Garden Labels, 12 inches..	.40	2.25	4.50	17.00	....
Garden Labels, 18x2 1/2 in..	.85	5.00	10.00	35.00	....

Twine

Binder twine in 8-pound balls. Cotton twine in 4, 6 and 12-ply balls and cones at market prices.



National Eezy Wear Garden Gloves

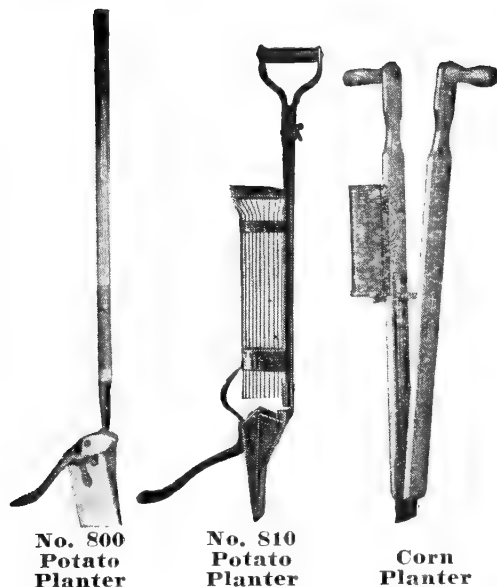
Give you everything you want —



Back again! These fine goat skin, long wearing Garden Gloves. Men's small or medium size, \$1.25 a pair. Ladies' small, medium or large, \$1.15 a pair.

Gloves

We carry a large assortment of canvas, leather and rubber gloves.



No. 800
Potato
Planter

No. 810
Potato
Planter

Corn
Planter

No. 800 Potato Planter. Will plant up to 4 acres a day. Easy to operate in any kind of soil. Each, \$1.50.
No. 810 Potato Planter. Easy to operate, up to 4 acres a day. Each, \$2.00.
Corn Planter. Will give years of satisfactory service. Accurate and easy to operate. Each, \$2.00. With fertilizer attachment \$3.50.

Vigoro Fertilizer Spreaders

Vigoro Spreaders make quick work of lawn feeding and lawn seeding. They are made in four sizes, all with forced feed, shutoff control on handle and are adjustable for various rates of application.



Model "B." 20 lbs. capacity. Each, \$4.05.
Junior, rubber tires, 35 lbs. capacity. Each, \$8.20.
Standard, 65 lbs. capacity. Each, \$16.95.
Special, 100 lbs. capacity. Each, \$24.25.

It's fun to fertilize your lawn the new "E-Z" Way. Simply fill container with any commercial fertilizer, guide like a vacuum cleaner, and your lawn is covered—quickly, scientifically, uniformly. Price, \$1.25; postpaid, \$1.40.



Lon-Groom Lawn Edger

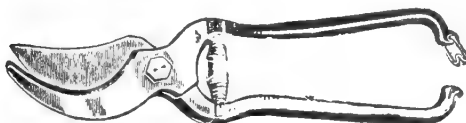
One of the very best. Cuts a clean line along the edge of the walk. Can be used for circling shrubbery, flower beds and tree trunks. Price with wood handle, \$1.55.

Vermiculite

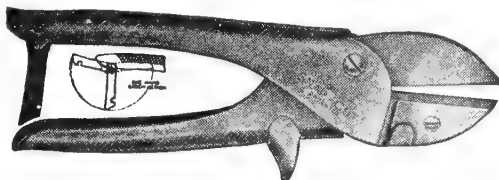
A new product in horticulture. Gives remarkable results as a soil substitute in starting seedlings or for rooting cuttings. Also can be used as a soil conditioner or mulch. Comes in three sizes; fine, medium or coarse. Price, 25-lb. bag, \$1.95.

Sani-Soil

Made from Redwood bark. Can be used as a garden mulch, soil conditioner and as a mixture in seed flats. Price, \$1.75 for a 25-lb. bag.



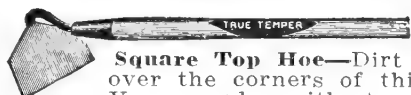
Pruning Shears. Made of best tempered steel. Prices, 75c to \$4.25.



Snap-Cut Pruning Shears. Cuts easier and cleaner. Price, \$2.25. Add 10c on mail orders.



Asparagus Knives—Strong and durable. 35c and 50c.



Square Top Hoe—Dirt passes over the corners of this hoe. Very popular with strawberry growers. Each, \$1.25 to \$1.75.



Level Head Steel Rake—Forged from one solid piece of steel. Ideal for gardening. Curved. 14-tooth rake. Each, \$1.90 to \$1.75.



Crab Grass Rake. Built on a new principle that will not harm your lawn grass but removes crab grass and other noxious weeds from your good grass. Each, \$1.25.

BAND-DIT

COPYRIGHT 1936

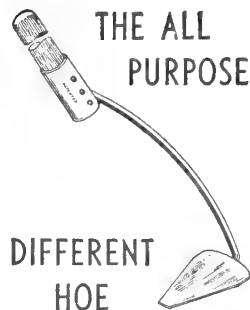
SAVES PRECIOUS TREES

ALL PREPARED AND EASY TO APPLY—
A SIMPLE METHOD OF BANDING TREES



A STICKY BAND
WITH DDT
FOUR CONVENIENT
LENGTHS

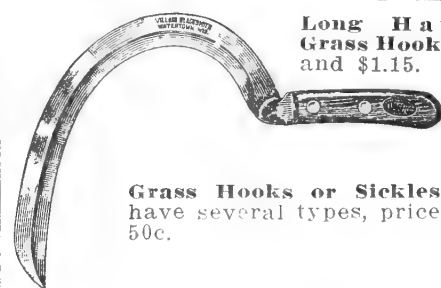
2 FT. TREES UP TO
7½" IN DIAMETER - 50c
3½ FT. TREES UP TO
13" DIAMETER - 75c
5 FT. TREES UP TO
19" IN DIAMETER - \$1.00
8 FT. TREES UP TO
31" IN DIAMETER - \$1.25



THE ALL PURPOSE

DIFFERENT HOE

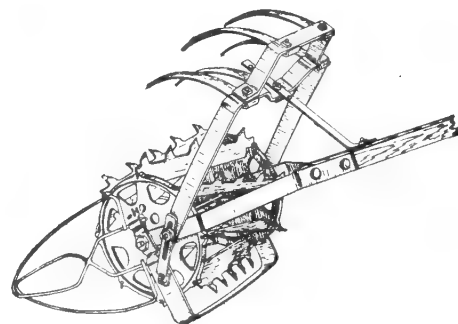
The All-Purpose Hoe. It works with ease and speed. Permits you to work close to plants without injuring foliage. Weight of The All-Purpose Hoe is only 1½ lbs., which is ideal for women to use around perennials, shrubs or garden crops, \$1.25.



**Long Handle
Grass Hooks.** 95c
and \$1.15.

Grass Hooks or Sickles. We have several types, priced 35c, 50c.

Ro-Ho Gardener

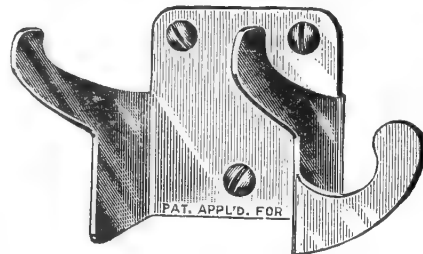
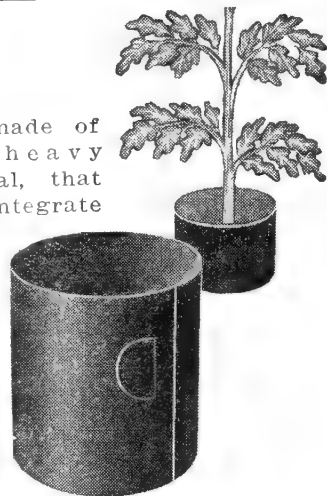


Weeds — Hoes — Cultivates — Mulches Soil. You do it all in one operation with less effort than it takes to push an easy-running lawn mower.

No. 10—10½ inches wide.....\$9.00

Cutworm Protectors

These are made of waterproof, heavy fibre material, that will not disintegrate in the soil. Are 3 inches high and 3 inches in diameter. Price, 50 in package, 25c. Postpaid, 35c.



Lawn and Garden Tool Holder. Will hold any garden, lawn or barn tool, from a fork to a shovel, also small tools. 10c each, 15c postpaid.

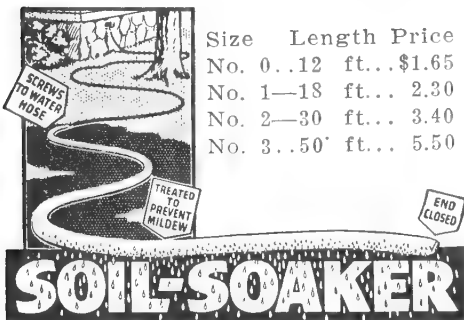
Waters Tree Pruner

A very good Tree Pruner at a low price. The blade is made of high carbon tool-steel accurately ground to cut perfectly true. Hook also made of carbon steel.

8-ft. Each\$3.00
10-ft. Each3.50
12-ft. Each4.00

Like ALL NIGHT RAIN

IT REALLY SOAKS THE SOIL



Size	Length	Price
No. 0..12 ft..		\$1.65
No. 1—18 ft..		2.30
No. 2—30 ft..		3.40
No. 3..50' ft..		5.50

Soil-Soaker
Is made of porous canvas and especially useful for watering terraces, narrow places, flower gardens and hedges. Soil-Soaker screws to the end of water hose, replacing the nozzle or sprinkler. When the water is turned on, Soil-Soaker fills with water—and normal pressure forces water through the pores of the entire surface of Soil-Soaker, uniformly, without spray. Easily moved without shutting off water, or getting wet.

The Ross Root Feeder

Here is a pointed pipe that permits sending fertilizer right down to the roots of plants, shrubs, hedges and trees. It can be attached to any standard garden hose. One dozen Ross Nutrient cartridges are furnished with each root feeder. Price, \$4.98.

Brandt's All Metal Garden Markers

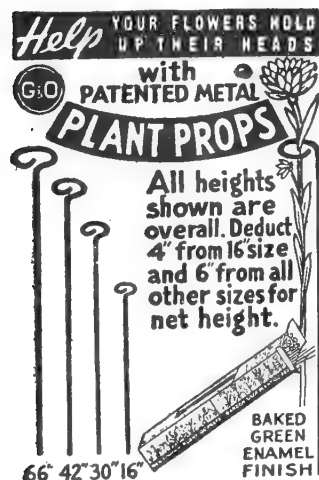
All holders and tabs are made of non-rusting, non-corrosive metals.

B-200, Out	B-207, 3c	B-210, 4c
B-201, 4c	B-208, Out	B-211, 4c
B-206, 2½c	B-209, Out	

Hanging Baskets

For porch, sun-parlor or indoors. Just the basket for ferns or trailing vines. Attractively finished in harmonizing green enamel.

10-in. diameter. Ea. 25c; prepaid, 35c
12-in. diameter. Ea. 35c; prepaid, 45c



These green enameled Metal Shields can be used as a protection around flower beds, evergreens, shrubs, etc. Approximate dimensions: 21 in. high, 13 in. wide. Each, 15c; doz., \$1.65. (Doz. weight 8 lbs.)

Wire Plant Props

These require no tying as the loop at the top can be slipped around the plant stem. Prices: 16 in., doz., 55c; 30 in., doz., \$1.05; 42 in., doz., \$1.35; 66 in., doz., \$2.25; 78 in., doz., \$3.30.



Fence Rods

These fence rods are made of sturdy ¼ inch steel with two loops which will support wire, clothes lines and even rope. Keep traffic off the lawns and flower beds. Mighty handy for circling trees and ornamentals to keep dogs at a safe distance. Rods 28 inches high. Dozen, \$1.35. Weight, 6 lbs. (Postage extra on mail orders.)



The New Improved Springfield Lawn Sweeper

The Springfield Lawn Sweeper gently lifts and collects paper, leaves, sticks, stones, and fresh cut or dead grass without harm to the growing grass. It lifts low-growing crab grass and other spreading weeds, so the lawn mower can cut off the seed pods before they ripen. Removes quantities of foul weed seeds that would otherwise germinate in your lawn. Cleans the lawn of weed seeds the same as a vacuum cleaner removes the dirt from a carpet.

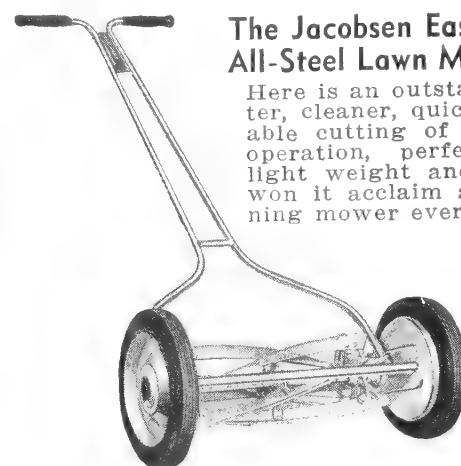


20-inch; metal bottom; rubber wheel.....\$35.00
28-inch; metal bottom; rubber wheel.....\$45.00

Above prices subject to change.

The Jacobsen Easy Running, Silent—All-Steel Lawn Mower

Here is an outstanding mower for better, cleaner, quicker and more dependable cutting of your lawn. Its quiet operation, perfectly clean shearing, light weight and easy handling have won it acclaim as the smoothest running mower ever made. Its super-steel construction throughout assures lasting accuracy and long life. It's practical economy to buy a Jacobsen.

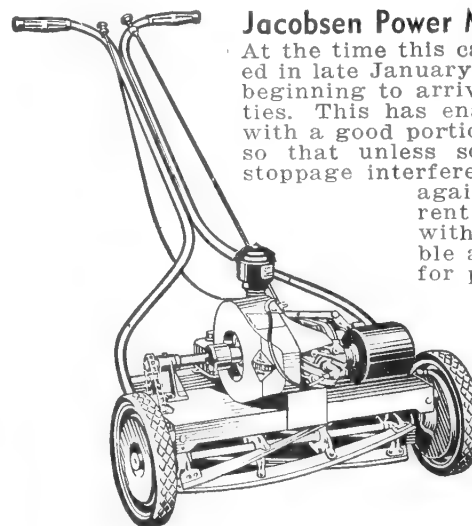


18-inch Hand Mower.....\$28.50

Dille-McGuire, 16 in., 5 blade, rubber tires.....\$17.25
Clemson, 17 in., 5 blades, rubber tires.....\$32.50

Jacobsen Power Mowers

At the time this catalog is being printed in late January, Power Mowers were beginning to arrive in sizeable quantities. This has enabled us to catch up with a good portion of the back orders so that unless some unforeseen work stoppage interferes we will be able to again take care of current needs. Get in touch with us as early as possible and we will book you for preference.



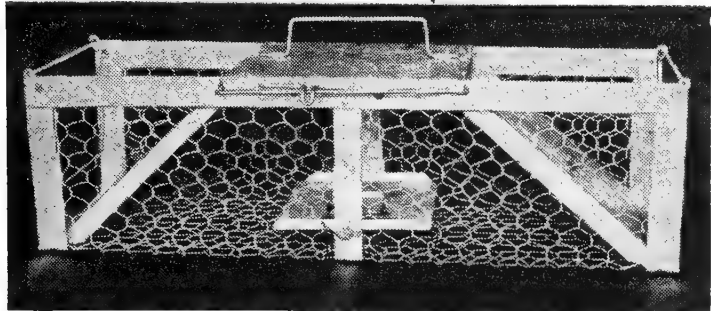
Lawn Mower Service Department

Our service department is thoroughly equipped to give prompt and efficient service. We repair, sharpen and adjust any model power or hand mower. We pick up and deliver in St. Paul. Satisfaction guaranteed. Phone Garfield 5377.

Waterwand

Irrigate your garden correctly. Save time and labor. Full volume delivered without force. No washing of soil—no damage to tender plants. Waterwand weighs only a pound. Reach the back of your deepest flower bed. May be left on the ground for long deep soaking. Waterwand irrigation encourages deep sturdy roots, makes plants drought resistant and longer lived. Fits standard garden hose. Price.....\$3.00

Havahart Humane Animal Traps



No. 1 for weasels, rats, chipmunks.....	\$2.65
No. 2 for muskrats, mink, rabbits, squirrels.....	3.75
No. 3 for woodchucks, raccoons, opossums, cats.....	8.50
No. 6 special mink trap.....	6.25
No. 7 special fox trap.....	12.00

TRAIN-ETTS

New Weatherized TRELLIS NETTING



Ideal Support for SWEET

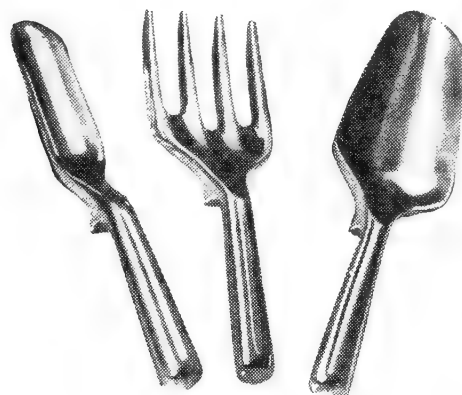
PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES

Grows finer, larger flowers and vegetables. Hung with ease in 5 minutes; no fuss or bother. Use instead of string or wire.

(Wire in sun burns delicate tendrils) Doesn't rot like string—
No. 1, 60x72 in., 65c, 70c postpaid; No. 2, 60x96 in.,
85c, 90c postpaid; No. 3, 60x180, \$1.25, postpaid \$1.35.

Masters "Handi-Cart"

Replaces the clumsy, awkward wheelbarrow. New and greater convenience for the 101 odd jobs around the home, garden, garage, yard! Just tip it down and rake grass-cuttings, leaves, trash, earth, sand, gravel, or what have you, right into the cart—then tip it back and you have a full load. To load heavy stones, bricks, cement blocks or other heavy objects, just tip front down and you don't have to lift at all. The longer you have it, the more uses you'll find for it. Built extra strong to stand abuse! Small size \$6.25 Large size 9.50

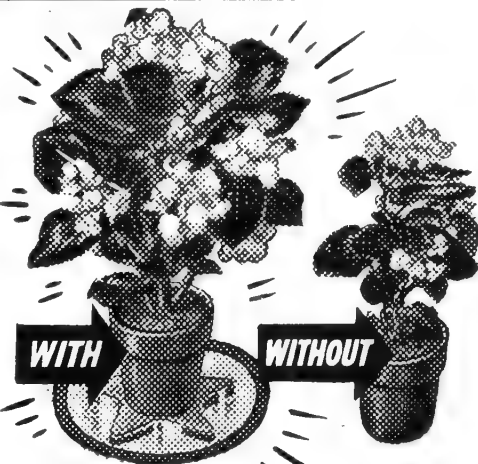


Aluminum Garden Tool Set

These aluminum tools will not rust. One-piece aluminum alloy provides feather weight lightness along with super-strength. Set of: 1 Garden Trowel, 1 Cultivating Fork, 1 Transplanting Trowel; all three for \$4.95; \$5.10, postpaid.

Mystic Mat

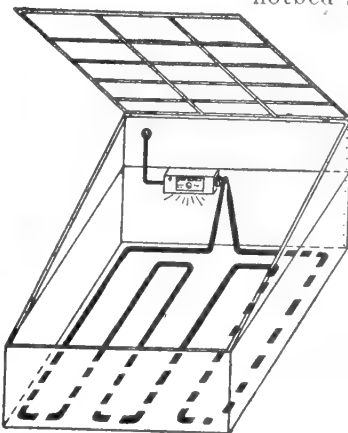
In greenhouses, the walls of clay pots are always kept damp. The roots hug the pot walls and the plant thrives. The Mystic Mat provides greenhouse conditions, but does not over-water. Results are amazing. Prices: 2, 5½ in. mats, 10c; 3, 3½ in. mats, 10c.



Mystic Mat

"GRO-QUICK" ELECTRIC SEED BED HEATER

Be a month ahead of neighboring gardens
hotbed soil insures fast early growth.

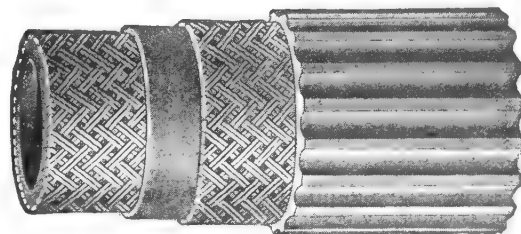


Senior Gro-Quick, contains thermostat, 80 ft. 400 watt insulated electric heating cable for burying in soil \$6.95

Junior Gro-Quick, same as above but with 40 ft. 200 watt junior cable, for 3x6 hotbed \$5.35

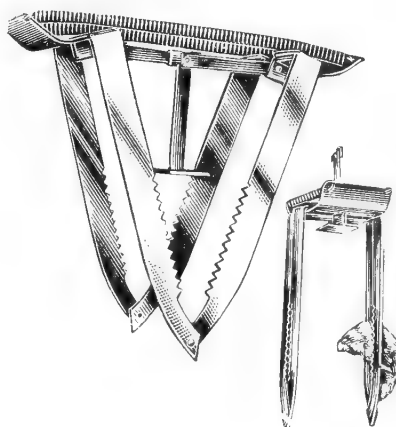
Lawn Hose

We have a good assortment of Lawn Hose in many grades and popular prices. See our stock before you buy.



Wood Tray Garden Barrow

Designed to meet the demand for a low-priced garden barrow. Inside measurement of box, 17x27 inches, 11 inches deep. With 18-inch steel wheel.....\$ 9.00
With 10-inch rubber wheel..... 17.50

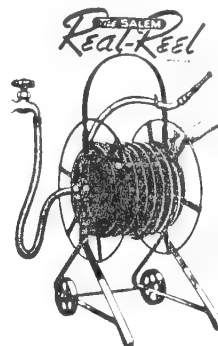


E-Z Trip Mole Trap

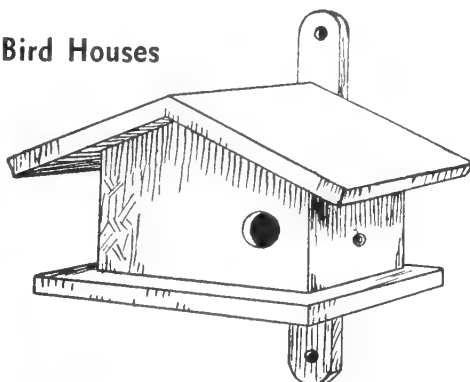
A new, simple, easy to set Mole Trap. This is one of the most satisfactory and easy-to-set traps we have ever handled. Each, \$1.80; \$1.95 postpaid.

Real Reel

Different from other portable reels. Water passes through rotating couplings on side of reel and while water is running as much or as little hose as needed can be unreel. Eliminates kinks and twists. Price, \$12.50.



Bird Houses



ready for the birds. Come in and see our large assortment of bird houses.

Put out a bird house or two in your yard. You will be richly repaid for your trouble. The birds each year will become a source of happiness and joy to you with their ever present and cheerful song. Here in the Northwest, song birds begin arriving in March and bird houses should be in place then

POULTRY FEED AND SUPPLIES

All prices printed in this book are subject to change without notice. Due to present conditions it is impossible to issue a Feed List, owing to constant changing of prices. To our city customers, please phone or call and we will give you market prices. All quotations are f. o. b. St. Paul. If goods are to be sent by parcel post, add postage.

Charcoal

Charcoal is one of the greatest disease preventatives for poultry. It aids in digestion, purifies the blood and regulates the bowels. Fowls, young and old, should have access to it at all times. In three sizes—fine, medium or coarse. 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$4.00.

Oyster Shell

Contains carbonate of lime, of the same composition as eggshell. As other feeds contain very little of this mineral matter, the hens need Oyster Shell at all times to produce eggs. 25 lbs., 40c; 50 lbs., 65c; 80 lbs., \$1.00.

Granite Grit

Is a necessary aid in digestion for both small and large birds. Keep before the fowls at all times. Two sizes—fine and coarse. 25 lbs., 40c; 50 lbs., 65c; 100 lbs., \$1.20.

Purina Checkerboard Feeds

Broiler Chow	Lay Chow, 18%	Rabbit Chow
Chick Startena	Layena	Chinchilla
Chick Growena	Fatena	Dog Chow
Duck Chow	Fox Chow	Omoleone
Turkey Startena	Goat Chow	Calf Startena
Turkey Growena	Mink Chow	

Prices quoted on request.

Foust's Pigeon Health Grit

Gives health, vim and vigor to both young and old birds. Raisers have found it unequaled as a tonic and for fattening squabs. 25 lbs., \$1.00; 50 lbs., \$1.80; 100 lbs., \$3.35.

Dried Buttermilk

Dried Buttermilk is pure fresh buttermilk with water only removed and nothing else added. Please ask for prices.

Nyco Brand Animal-Poultry Yeast Culture

Gives the vim to the chicks to grow and hens to lay. Assists the birds in digesting their food, especially the starches found in such large quantities in all poultry feeds. 4-lb. containers, \$1.25.

Purity Stock and Poultry Yeast

Means more eggs, more vitality in your flock. Prevents bloat and scours in cows or calves. 10 lbs., \$1.50; 25 lbs., \$3.25; 50 lbs., \$6.25; 100 lbs., \$12.00.

Cod Liver Oil

Genuine high potency Cod Liver Oil is back again. (400D, 1,000A) 1 qt., \$1.50; ½ gal., \$2.50; 1 gal., \$4.75; 30-gal. drum at \$4.00 a gallon.

Fish Oil

This is a very high grade of oil for poultry and stock only. 1 qt., 75c; ½ gal., \$1.25; 1 gal., \$2.25. Prices in your own container or in a 30-gallon barrel, quoted on request.

Pulvex

Pulvex is a non-poisonous powder to use on any animal including canaries; particularly dogs, cats, foxes, poultry and large animals to control lice, fleas, ticks and mites. Prices: 1½ oz. size, 25c; 3½ oz., 50c; 12 oz., \$1.25.

Lice-Kill Salve

Kills body lice on chickens, head lice on chicks; also used for scaly leg. One of the best lice-killers; guaranteed to kill every louse on the fowl or money will be refunded. Tube, for 200 fowls (postpaid), 60c.

Avenarius Carbolineum

Kills and stops the propagation of chicken mites or fowl ticks in poultry houses for a whole year. Disinfects deep cracks and crevices, where vermin and disease germs propagate. One gallon covers 100 to 200 square feet. Preserves wood against rot. 1 gal., \$1.50.

Gold Leaf Tobacco Powder

Controls poultry round worms. 2 lbs., 25c; 10 lbs., \$1.00; 100 lbs., \$5.50.

Epsom Salts

For poultry. Give to mature birds the first thing in the morning before feeding at the rate of ½ lb. salts to 2 gal. of water, for 100 birds. Use ½ as much salts to same amount of water for pullets. 1 lb., 12c; 5 lbs., 35c.

DR. HESS PREPARATIONS

Stock Tonic. For horses, cattle, sheep and hogs. Improves appetite. Supplies needed minerals. 1½ lb., 30c; 5 lbs., 85c; 10 lbs., \$1.50; 30 lbs., \$3.75; 100 lbs., \$10.50.

Hog Special. Supplies minerals and keeps hogs' internal organs in full function. 1½ lb., 30c; 5 lbs., 85c; 10 lbs., \$1.50; 30 lbs., \$3.75; 100 lbs., \$10.50.

Poultry Pan-a-Min. A tonic-conditioner for both young and mature birds. Supplies necessary minerals apt to be lacking in feeds. Helps shorten the moulting period. 1½ lbs., 30c; 5 lbs., 85c; 10 lbs., \$1.50; 30 lbs., \$3.75; 100 lbs., \$10.50.

Dip and Disinfectant. Kills sheep ticks, hog lice, poultry mites and other skin parasites of livestock. For stables, stock pens, barns, poultry houses, garbage cans—wherever there is filth, or foul odors rise. 12 oz., 50c; 1 qt., 75c; 1 gal., \$1.75.

Sofenate. A water soluble, sterilizer and all around farm disinfectant in powder form. Ideal for milk handling equipment. Will not taint food, milk, butter, eggs or any dairy product. 1 lb., \$1.25; 5 lbs., \$5.00.

Fly Spray. Protects cows from fly torture while milking. Has pleasant pine odor. Will not taint milk. 1 gal., \$1.50; 2 gal., \$2.10.

Coxitrol. Valuable to control and treat bloody coccidiosis. Use in mash. 1 lb., 80c; 5 lbs., \$3.50; 10 lbs., \$6.50.

Powdered Louse Killer. Now contains DDT. Kills lice on livestock and poultry, ticks on sheep and fleas on dogs. In handy sifter top can. 1 lb., 35c; 2½ lbs., 75c; 7½ lbs., \$1.85.

P. T. Z. Made of phenothiazine the most effective drug known to remove certain worms from sheep, hogs, cattle and goats. 50 pellets, \$2.00; 100 pellets, \$4.00.

Nicozine. For large round and cecal worms in poultry. A flock treatment given in feed. Will not interfere with egg production. 50-bird size, 50c; 100-bird size, 90c; 250-bird size, \$1.90; 500-bird size, \$3.00.

Poultry Tablets. Use as local antiseptic. Valuable in treating roup. 25c, 50c and \$1.00.

Chick Tablets. A bowel astringent to treat diarrhea in baby chicks or adult birds. 25c, 50c and \$1.00.

Dr. Hess Poultry Inhalant. Helpful in treating bronchial irritations. Aids in expelling mucous from upper respiratory tract. 4 oz., 65c; 8 oz., \$1.10.

Dr. Hess Udder Ointment. A soothing, penetrating emollient for caked, swollen or injured udders, cracked or chopped teats. 8-oz. jar, 55c.

LEE'S PREPARATIONS

Acidox. To aid in the prevention and treatment of coccidiosis. 4 oz., 50c; 12 oz., \$1.00; 32 oz., \$2.00.

Blitspray. A liquid spray for lice on poultry or lice on stock. 1 pt., 75c; 1 qt., \$1.25.

Lee's Creosote Dip. (Lee's Dip and Disinfectant.) Exceptionally powerful as a disinfectant and germicide. 1 qt., 75c; 1 gal., \$1.75.

Lee's Dri-Rub. For cold weather sanitation and lice around poultry houses and livestock. 3 lbs., 45c.

Lee's Germozone. One of the very best remedies for poultry affected with colds, cholera, roup, bowel trouble, sour crop, sore head, etc.

4-oz.\$0.40 32-oz.\$1.50 1 gallon\$4.50
12-oz.75 ½ gallon ... 2.50

Lee's Gizzard Capsule. For Worms in Poultry. Effective against common intestinal worms in chickens and turkeys. Prices: Adult size: 50 capsules, 75c; 100 capsules, \$1.25. Pullet size: 50 capsules, 50c; 100 capsules, \$1.00. The chick size: 50 capsules, 40c; 100 capsules, 75c.

Lee's Louse Powder. For small flock it is convenient, economical and sure. 1 lb., 25c; 2½ lbs., 50c.

Leemulsion. For treating colds, wheezing or bronchitis. Stir into drinking water. 4 oz., 50c; 12 oz., \$1.00; 32 oz., \$2.00.

Mite Killer. Easy to spray, penetrates and kills fast. 1 qt., 60c; ½ gal., 90c; 1 gal., \$1.50.

Lee's Pickpaste. Pickpaste will break the bad habit of chicks picking one another's toes, vent, wings, etc. 2 oz., 25c; 6 oz., 60c.

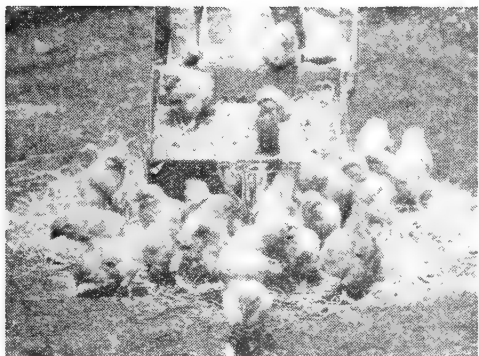
Pinjectol. For pinworms and blackhead control in turkeys. 12-oz. bottle, 75c.

Tonax. A tonic and conditioner for chickens and turkeys. 12 oz., 30c; 2 lbs., 75c.

Lee's Vapo-Spray. For the relief of coughs due to colds and minor bronchial irritations in poultry and swine. 1 pt., 50c; 1 qt., 75c; ½ gal., \$1.25; 1 gal., \$2.00.

U. S. Approved
U. S. Pullorum Tested

Master - Mated Chicks and Ducklings



Master-Mating means you get
big, husky, lively chicks with
Greater Earning Power Bred IN
You Take Extra Profits OUT

Master-Mated Chick

Breeds	Prices per 100 Chicks			
	A Grade for Mar- ket & Broilers	AA Grade for Good Farm Flocks	AAA Grade for the Better Raiser	AAAA Grade for the Spe- cialist
White Leghorns	\$14.00	\$15.00	\$16.00	\$17.00
White Rocks	14.00	15.00	16.00	17.00
Barred Rocks	14.00	15.00	16.00	17.00
Buff Rocks		15.00		17.00
Buff Orpingtons	14.00	15.00	16.00	17.00
S. C. Reds	14.00	15.00	16.00	
White Wyandottes	14.00	15.00	16.00	17.00
New Hampshire Reds		15.00	16.00	
Heavy Mixed		15.00		
White Leghorn Pullets		30.00	32.00	34.00
Heavy Pullets		19.50	21.00	
Leghorn Cockerels	5.00	When available.		
Heavy Cockerels	13.50	When available.		

We are endeavoring to maintain the above prices but due to present conditions all prices are subject to change without notice. A 25% deposit is required with each order. Balance before shipment or C.O.D. if desired.

DUCKLING PRICES

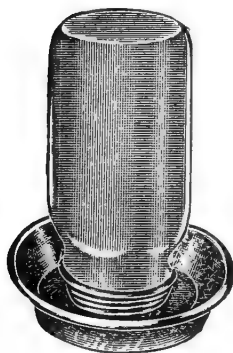
Our Mammoth White Pekin Ducklings are from one of the largest Duck Hatcheries in the United States. Pekin Ducks are the fastest growing and largest breed of all ducks. They are strong, healthy, and fast growing, often weighing 7 and 8 pounds, with proper care and feed, in two to three months.

Three-Day-Old Ducklings, 35c each; 10 to 24, 34c each; 25 to 49, 33c each; 50, \$16.00; 100, \$30.00.

The above duckling prices not good after May 15th.

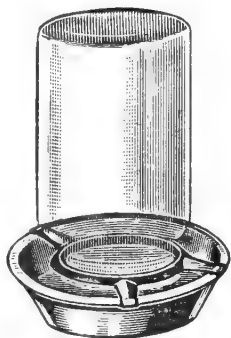
Prices on Giants, Brahmas,
Austra Whites on request.

Glass Jar Chick Fountains



For water, milk, medicine or butter-milk. Enameled or charcoal tin. Fits standard pint, quart, or two-quart Mason jars. Without jar, 2 for 25c.

Glass base fountain made of heavy clear glass moulded with smooth edge. Without jar, 2 for 25c.



Poultry Litter

Sani-Flor Poultry Litter is 100% mineral substance and fireproof. Cannot harm chicks if they eat it. Being mineral, Sani-Flor will not get moldy or decay, and as it has no food value, it is vermin-proof. Provides a thick blanket of insulation over the floors to keep chicks warm and dry. Sani-Flor is lightweight, highly absorbent cellular granules that absorb chick droppings and dry out quickly by evaporation. 1 bag (about 25 lbs.), \$1.95; 10 lbs., \$1.00.

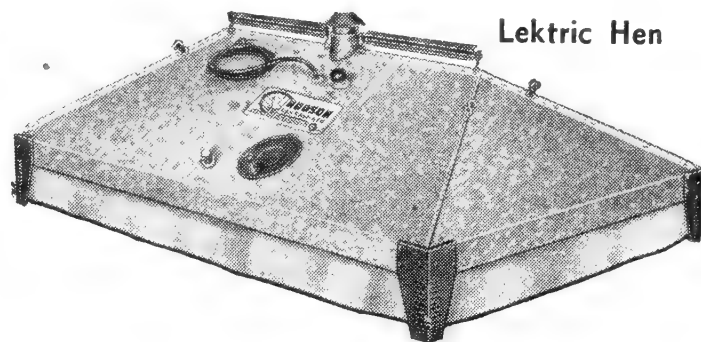
Servall-Stazdry Litter. An economical, light colored, clean litter made from dried sugar cane. It is fluffy, resilient and absorbent. Can be used for poultry, cattle, horses and pets. 1 bale (about 100 lbs.) covers about 300 square feet, one inch deep. Price, \$2.55.

Imported Poultry Peat. One bale covers 350 square feet, one inch deep. 1 bale (about 140 lbs.), \$4.75; 1/2 bale, \$2.75.

Chick-Bed. This silica poultry litter is ideal for baby chicks and laying hens. Saves labor, reduces chick losses. Brooder size, 90-lb. bag, \$2.80; nest size, \$2.30 for 90-lb. bag.

Econo Senior Chick Brooder

An electric Chick Brooder, 46x46 with automatic thermostat control. Capacity, 300 chicks. Price, \$10.00.



Lektric Hen

Hudson 4872 (Lektric Hen). Distributes heat evenly, has automatic temperature control, plugs into 110-120 volt A.C. socket. 500 chick capacity. Price, \$42.50.

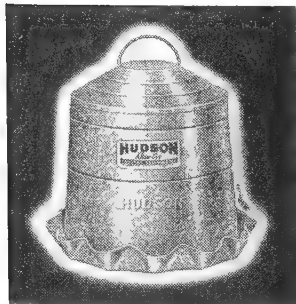
Hudson 256B "Safety-oil" Brooder. Has new safety base and silent burner with 54 inch "Heat-Saver" hover top. 500 chick capacity. Price, \$26.00.

Walko Tablets

A wonder-working medicine for the treatment and prevention of White Diarrhea, Roup and Cholera. 50c, \$1.00.

Avicol

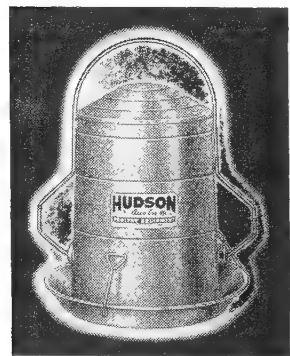
Your loss of baby chicks CAN BE STOPPED—easily, quickly. Avicol is a special bowel antiseptic. It stops disease and prevents its spread by destroying germ life and helping the chicks withstand infection. Price, 50c; special large size (almost 3 times 50c size), \$1.00.



Chick Fountains

Popular priced fountain in two sizes. Invert to fill, cupped pan snaps on securely. May be carried without spilling or over-running. Ribbed cone top prevents roosting.

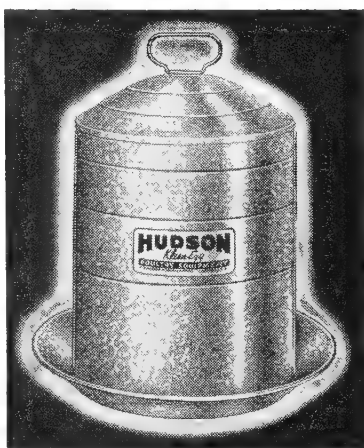
No. A4—1 gal. Each.....75c
No. 8A—2 gals. Each.....\$1.10



Handy-Fill Chick Fountain

Handy-Fill chick fountain with exceptional water capacity at an attractive price. Reversible bail for easy filling and cleaning. Drinking pan of special Hudson design. One-piece, rolled edge trough especially designed for small chicks, of no-spill design.

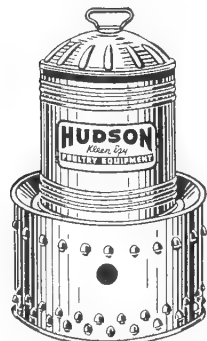
No. C3—3 gal. Each.....\$1.75
No. C5—5 gal. Each.....2.35



Chick and Broiler Fountain

A fountain that is easily cleaned, cone top preventing roosting. Equipped with self-closing valve. New design of "wade-proof" trough prevents waste and moisture accumulation.

K-3—3 gal.\$2.50
K-5—5 gal.3.75



Broiler and Flock Fountain

A long lasting double wall type, top-fill fountain. Saucer shape pan provides all needed drinking space at water surface, yet chickens cannot stand in it. Has anti-roost top.

No. K5H—5-gal. size. Complete with heater\$6.25

Carbola with 2% DDT

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied with brush or spray pump. Disinfects and dries white. Does not flake or peel. 1 lb. covers 100 sq. ft. The dry powder is an excellent louse powder. 1 lb., 25c; 5 lbs., 80c; 10 lbs., \$1.35.

Sav A Day Bleach and Disinfectant

A powerful sodium hypochlorite germicide, disinfectant and deodorizer for home use, dairy and cream sterilization, taverns, soda fountains, restaurants, etc. Destroys fish and other odors; for cleaning and deodorizing garbage cans and toilets and a hundred other uses. Sav A Day is invaluable. 1 qt., 15c; ½ gal., 28c; 1 gal., 50c.

Don Sung

A Mineral Compound that Scientifically Helps Nature. Don Sung is a balanced mineral conditioner. It improves the hen's health, tones up her egg-laying organs, and makes her stronger and more productive. Prices: 45 tablet size, 50c; 130 tablet size, \$1.00; 810 tablet size, \$5.00.

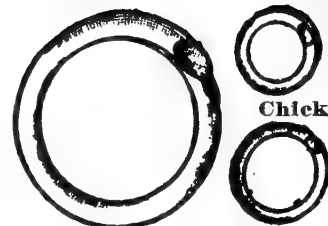
Group-Over. A Soothing Antiseptic

Roup is one of the most serious of poultry diseases. Keep Group-Over on hand and at the first symptoms of a cold in your flock, give it to every affected bird. It clears the air passages and brings relief with magic quickness. Easily given. Comes in a liquid form and a few drops does the work. Price, 3 oz., 50c; 8 oz. size, \$1.00.

Spiral Leg Bands

Please Note. When ordering be sure to state the color desired, also for what breed of birds wanted.

These bands are made of highest quality celluloid. Colors are: White, blue, green, yellow, red, pink, light blue, cerise, purple and black.



	American		Pigeon	
Size	Doz.	25	100	1000
Chick, Pigeon, Bantam.....	\$0.10	\$0.15	\$0.50	\$ 4.00
Mediterranean, American.....	.10	.20	.60	4.50
No. 12 Asiatic.....	.15	.25	.70	5.50
No. 13 Asiatic.....	.15	.25	.85	6.50
No. 14 Turkey.....	.20	.35	1.00	7.50
No. 16 Turkey.....	.25	.45	1.40	10.00

Economy Colored Poultry and Pigeon Band Numbered

The Best Band for Exhibition Purposes

Colors: Red, Blue, Pink, White, Yellow, Green, Purple. Sizes 4 and 5 for Pigeons; 5, 10c; 10, 20c; 25, 40c; 50, 65c; 100, \$1.25. Size 9 for Mediterranean; size 11 for American breeds; sizes 12 and 13 for Asiatic; sizes 14 and 16 for Turkeys; 5, 15c; 10, 25c; 25, 60c; 50, \$1.10; 100, \$2.00.

Poultry Feeders

No. 6360—3 ft. Chick Feeder.....\$.85
No. 748—4 ft. Broiler Feeder.....1.85
No. 25S—5 ft. Mash Hopper.....4.50

Flex-O-Glass

Holds in heat better than glass. For covering poultry house windows, hot beds, etc. Permits the health giving ultra-violet rays to pass through. Approved by leading authorities. Square yard, 30c.

Cel-O-Glass

A high grade, low priced substitute for glass for poultry houses, hog houses, cold frames, storm doors, windows, porches, garages, etc. Practically unbreakable. Permits ultra-violet rays to filter through. Price, 1x3 feet, 60c; 5x3 ft., \$2.10; 10x3 ft., \$4.20.

3x4 Egg Cartons (Eagle)

A square shaped, two-piece egg carton.
1 doz..\$0.25 100 ...\$1.75 500 ...\$ 7.25
2 doz.. .50 250 ...3.75 1,000 ..14.00

Carry-Safe Egg Cartons

A one-piece cushioned carton, size 3x4 that saves egg breakage and labor.

1 doz.25c 100\$1.85 500\$ 8.00
2 doz.50c 2504.00 1,00015.50

B-K (Bacili-Kil)

Bacili-Kil or commonly called B-K is one of the most powerful germicides and disinfectants, being even more effective than pure carbolic acid and still non-poisonous. We do not hesitate to recommend it for general use in the home, poultry house or barns. Trial size, 30c; 10 oz., size, 50c; 1 qt., 90c; 1 gal., \$2.00; 5 gals., \$8.50.
Powder: 9-½ oz. bottle, 75c; 1¼ lb. bottle, \$1.50.

Wheat Germ Oil

For Vitamin E deficiency in poultry and livestock. Is the pure golden oil extracted from the wheat germ itself. Fortify your feed with this remarkable oil and you will get amazing results. Increases fertility. 4 oz., \$1.00; pint size, \$3.60.

"Black Leaf 40" for Poultry Lice

"Black Leaf 40" painted on the top side of the roosts controls body lice. Saves the labor of handling each bird either to dust, dip or grease. "Black Leaf 40" does not harm the birds nor retard egg production. Prices: 1-oz. bottle (treats 60 running feet of roost), 35c; 5-oz. bottle, \$1.05; 1 lb., \$2.50; 2-lb. tin, \$3.95; 5 lbs., \$7.40; 10-lb. tin., \$12.85.

Thermostat Wafers



Wafers to fit any incubator or brooder. State make when ordering.

Size, 3 inch. Each, 35c; 40c postpaid.
Size, 4 inch. Each, 45c; 50c postpaid.

Opal Glass Nest Eggs

The exact size of real hen's egg. Doz., 50c. By parcel post, 65c.

Tucocide

An odorless powder that destroys odors from basements, barns, garbage cans, toilets, sewers, etc. 8 oz. size, 50c; 22 oz., 95c.

Salt

Water Softener. A Kleer. 100-lb. bag.....\$1.40
CC-Rock, Ice Cream, Sidewalk. 100-lb. bag..... 1.35
FC-Coarse, Stock or Hay. 100 lbs..... 1.05
White Cattle. 50-lb. block, each..... .60
Iodized. 50-lb. block, each..... .95
Sulphurized. 50-lb. block, each..... .75

Morton's Smoke Salt

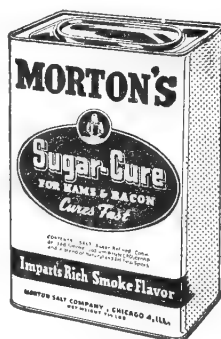
Does the entire job of salting, sugar-curing and putting the appetizing flavor of wood smoke into your hams and bacon. 2 lbs., 25c; 7½ lbs., 75c.

Morton's Tender-Quick

A special meat cure for beef, veal, mutton, lamb, fish, fowl, pork specials, wild game, etc. Cures faster—improves flavor—makes meat more tender, 2½ lbs., 50c; 10 lbs., \$2.00.

Morton's Seasoning

That extra something that makes good cooking taste better. 10 oz., 30c.
Morton's Meat Pump.....\$1.50



Fleischmann's Irradiated Dry Yeast

Helps to keep your dog in wonderful condition, to eliminate skin trouble and intestinal disorders and to give your dog a finer, glossier coat. Just add a teaspoonful to his daily diet. 3½ oz., 30c; 8-oz. can, 60c; 1 lb., 85c.

EGG PRESERVATIVES

Hammond's Water Glass. At a very small cost, you can have eggs in winter that are for all purposes fresh, at the low springtime prices. Pt. size, 25c (preserves 10 doz. eggs); qt. size, 40c (preserves 20 doz. eggs).

Lee's Egg-O-Latum. An ointment quickly applied to eggs. Will keep them fresh for a long time. Egg-O-Latum is colorless, odorless, tasteless and non-poisonous. 50c jar enough for 50 doz. eggs; \$1.00 size, enough for 200 doz. eggs.

"Jiffy-Way" Egg Grading Scale

Four-color zone dial doubles grading speed. You see instantly the correct weight and grade. Each, \$1.50.

The New "Jiffy-Way" Candler

This candler is attractive, durable and economical in operation. Each, \$1.50.

"Jiffy-Way" Combination Egg Scale and Candler

Price, \$4.95.

Thermometers

Brooder, each...50c to 85c Greenhouse, each...55c to \$1.25
Incubator, each50c House, each35c to \$1.25

Wheat Germ

For Health—Eat fresh Wheat Germ. One of Nature's most vital health foods. Contains Vitamin B-1 (Thiamin), Vitamin G (Riboflavin), Vitamin E and Vitamin A. A tablespoonful is a day's average dose. Eat fresh Wheat Germ for Health and more Pep. 100% Wheat Germ, 1 lb., 60c.



Don't Blame Fleas

When dogs itch—scratch continually, it's usually not due to fleas, mange, diet. 2 to 1 it's FUNG-ITCH — grass-borne fungus infection long a puzzle to science. Now a noted specialist's discovery—SULFADENE—applied externally, stops itching in minutes. Clears up scales and sores in a few days. Generous treatment, only 98c.

Dr. MERRICK'S SULFADENE

Cupid Chaser

A remedy to keep dogs away from females during the mating season. Price, \$1.00.

Chaperone (Powder)

Makes your dog behave in the house. Keeps dog off rugs and furniture if desired. Price, 50c and \$1.00.

Dog Check

An effective remedy for breaking dogs and cats of their undesirable habits. Simply spray Dog Check in front of evergreens, shrubs, or other plants to keep animals away. Sprayer included with each package. 3-oz., 60c; 8-oz. size, \$1.00.

BIRD SEED



In the quality and kind of seed you give your bird depends his health and song, and it is of the greatest importance to get good seed. More birds lose their song from the wrong kind of food or poor seed than from any other cause. Buy good seed and you will continue to have a happy singing bird. The seed we offer is carefully selected and of the highest quality. We shall be pleased to quote you in larger amounts than those we have listed. Please add postage to mail orders.

Bird Seed

	1 lb.	5 lbs.	10 lbs.
Canary Bird Gould's Mixture.....	\$0.20	\$1.00	\$2.00
Love Bird Mixture.....	.20	1.00	2.00
Hemp .....	.50	2.25	4.00
Millet .....	.20	.60	.85
Rape .....	.35	1.50	2.75
Sunflower, large parrot.....	.35	1.65	3.00
Lettuce Seed .....	.75	.....	.....
Thistle Seed .....	.50	2.25	4.25
Poppy Seed, white .....	.50	2.25	4.00
Bird Gravel (bulk) .....	.05	.25	.40
Cuttle Bone (small size)	Oz., 25c		

We also have canary feed drinking and treat cups, bird baths, and canary leg bands.

Bird Remedies and Feeds—Fish Food

Bird Bitters	10c	Mite Powder	35c
Bird Nesting	10c	Moulting Food.....	15c and 35c
3V Song Food.....	15c, 35c, \$1.00	Bird Salve	10c
Nestling Food.....	10c and 35c	Fish Food	10c
Catnip, bulk	10c	Aquarium Cement	25c
Lice Powder	10c		

We carry a complete line of American Brand Bird Products.

RABBIT SUPPLIES

Also Rabbit Feeds at Market Prices.

Rabbit Salt Spools. Plain, sulphurized or mineralized. Each, 6c; doz., 60c; postpaid, 75c; 100, \$5.00.

Rabbit Feeders (stoneware)Please ask for prices
Rabbit Waterers (stoneware)Please ask for prices

PULVEX AND SERGEANT'S DOG MEDICINES

We carry a complete line of the famous Sergeant's and Pulvex Dog Medicines.



Purina Dog Chow

Purina Dog Chow is a complete food made of dried meat, dried milk, wheat germ, barley malt, cod-liver oil and other health building ingredients. Dogs love it. It's good for them. To suit your dog's taste Dog Chow comes in two forms, listed below. Feed either one or both for variety.

Dog Chow Checkers

Two sizes, large and small. Dogs love to chew them. It satisfies their natural desire to gnaw.

50 lbs.	\$5.20
25 lbs.	2.75
5 lbs. ....	.60

Dog Chow Meal

Complete food in granular form. Simply stir in warm water, milk, soup, etc., and serve.

50 lbs.	\$4.95
25 lbs.	2.65
5 lbs. ....	.58



INDEX



A

Abronia 22
Acroclinium 22
Adco 55
African Daisy 22-25
Agatheia 22
Ageratum 22
Agrostemma 33
Alfalfa 46
Aluminum Sulphate 54
Alum Root 34
Alyssum 22-33
Amaranthus 22
Amaryllis 36
Ammate 52
Anagallis 22
Anchusa 22-33
Anemone 36
Animal Traps 55
Anise 10
Anthemis 33
Antirrhinum 22
Ant-Kill 49
Antrol 49
Antu 55
Aphis Spray 49
Aquilegia 33
Arabis Alpina 33
Arasan 51
Arctotis 22
Armeria 33
Arnold Sprayers 53
Arsenate of Lead 49
Asparagus Knife 57
Asparagus Roots 43
Asparagus Seed 3
Asters 23-33
Atlacide 49
Aubretia 33
Avicol 61

B

Baby Blue Eyes 28
Baby Chicks 61
Baby's Breath 26-34
Bachelor Buttons 24-33
Bacili-Kil (B. K.) 62
Bait-M 49
Balsam 23
Band-Dit 57
Barley 48
Barrows 59
Barsprout 17
Bartonia 23
Basil Sweet 10
Basket of Gold 33
Beans 3-4
Bearded Tongue 35
Beets 4-5
Begonia 36
Bell Flower 35
Bellis 33
Bent Grass Plugs 1
Bent Grass Seed 1
Bent Stollens 1
Berry Bushes 44-45
Bird Houses 59
Bird Remedies 63
Bird Seed 63
Black-eyed Susan 31
Black Flag 49
Black Leaf 40 49-62
Blanket Flower 25-34
Blazing Star 23
Blue Daisy 22
Blue Lace Flower 25
Blue Vitriol 49
Books 33
Borage 10
Borax 49
Bordeaux 49
Borikil 49
Bouncing Bet 36
Boysenberry 45
Brachycome 23
Broccoli 5
Bromus Inermis 46
Brooders 61
Browallia 23
Brussel Sprouts 5
Buckwheat 48
Bulbs 36-37-38-39
Butterfly Flower 30

C

Cabbage 5-6
Cacalia 23
Caladium 36
Calcium Arsenate 49
Calcium Chloride 49
Calcium Cyanide 49
Calendula 23
California Bluebell 28
California Poppy 24
Calliopsis 23
Campanula 33
Candytuft 24-34
Cannas 24-37
Canterbury Bells 24-33
Cape Forget-me-not 22
Caraway 10
Carbala 62
Carbolineum 60
Cardinal Climber 24
Cardinal Flower 35
Carnation 24-33
Carrots 7
Castor Beans 24
Catnanche 33
Cathedral Bells 24

Catnip or Catmint 10
Cauliflower 6
Celeriac 7
Celery 7
Cell-O-Glass 62
Celosia 24
Celtuce 6
Centaurea 24-33
Cerastrum 33
Ceresan 51
Chaperone 17-49-63
Charcoal 60
Cheranthus 36
Chick Feeders 62
Chicory 6
Chinese Cabbage 6
Chinese Forget-me-not 25
Chinese Wool Flower 24
Chives 6
Chrysanthemum 24
Cinnamon Vine 36
Clarkia 24
Clay Pots 56
Clematis 42
Cleome 24
Climbers, Hardy 42
Climbing Vines 24
Clover 1-46
Cobaea Scandens 24
Cockscomb 24
Cod-liver Oil 60
Coix Lachryma 24
Collards 6
Columbine 33
Cone Flower 30-36
Copper Carbonate 49
Copperas 52
Copper Sulphate 49
Coral Bells 34
Coral Lily 35-36
Coreopsis 33
Coriander 10
Corn, Field 48
Cornflower 24-33
Corn, Ornamental 24
Corn Planter 57
Corn, Sweet 8
Corrosive Subli-mate 17-49
Cosmidium 25
Cosmos 25
Creeping Zinnia 30
Cress 8
Crested Wheat Grass 46
Crimson Flax 27
Crow Repellent 49
Cryolite 50
Cucumber 9
Cultivator 57
Cuphea 25
Cupid Chaser 63
Cupid's Dart 33
Cutworm Bait 49
Cutworm Protector 57
Cyanogas 49-55
Cynoglossum 25
Cypress Vine 25

D

Dahlia 25-39
Daisy 33
Dawg-Gone 17-49
DDT 49-51-62
Delphinium 34
Dendrol 50
Dianthus 25-34
Dianthus Barbatas 36
Dictamnus 34
Didiscus 25
Digitalis 34
Dill 9
Dimorphotheca 25
Disinfectant 60
Dog Check 63
Dog Food 63
Dog Remedies 63
Dogzoff 17-50
Dolichos 25
Don Sung 62
Dow Flakes 49
Dried Buttermilk 60
Dubay Seed Disin-fectant 51
Ducklings 61
Dusters 53
Dutox 50

E

Earth 1
Echinocystis 32
Egg Cartons 62
Egg Grader 63
Eggplant 9
Egg Preservative 63
Egg Scale 63
Elephant's Ear 36
Emo 50
Emo-Nik 50
Endive 10
End-o-Pest 50
English Daisy 33
Epsom Salt 60
Erosinet 1
Eschscholtzia 24
Evening Primrose 28-35
Evening Scented 28
Stocks 28
Evergreen 50
Everlastings 25

F

Fence Rods 58
Fennel 10
Fertilized Earth 42
Fertilizers 54-55
Fertilizer Spreader 57
Feverfew 28
Field Beans 4-48
Field Corn 48
Field Peas 48
Fish Food 63
Fish Oil 60
Flax 47
Flex-O-Glass 62
Flit 50
Flowering Flax 35
Flowering Plants 26-32-36
Fly Spray 60
Fodder Corn 48
Forget-me-not 35
Formacide 50
Formaldehyde 17-50
Fountains 61-62
Four O'Clock 25
"43" for the Tree 52
Foxglove 34
Fruitone 50
Fruit Trees 44
Fume Ogen 51
Fungicides 17-49-50-51-52
Funtrogen 51

G

Gaillardia 25-34
Garden Guard 50
Garden Heliotrope 36
Garden Markers 58
Garlic 10
Gas Plant 34
Geranium 26
Germozone 60
Geum 34
Gilia 26
Gizzard Capsules 60
Gladioli 38
Glazing Gun 56
Glazing Points 56
Globe Amaranth 26
Gloves 56
Gloxinia 36
Godetia 26
Goldlack 32
Gomphrena 26
Gopher Poison 55
Gopher Traps 55
Gourds 26
Grafting Wax 50
Grape Dust 50
Grape Vines 45
Grasses 1-46-47
Grass Hooks 57
Grass, Lawn 1
Green Fingers 55
Grit 60
Group-over 62
Gypsophila 26-34

H

Handi-Cart 59
Hanging Baskets 58
Hardwood Ashes 54
Hardy Larkspur 34
Hardy Marguerite 33
Hardy Sweet Peas 35
Harebell 33
Hedges 43
Helianthemum 34
Helianthus 26
Helichrysum 26
Heliopsis 34
Heliotrope 26
Hellebore 52
Herbs 10
Hess Remedies 60
Heterophyllia 26
Heuchera 34
Hibiscus 34
Hoes 57
Hollyhock 26-34
Honesty 35
Hose 59
Hotkaps 56
Huckleberry 21
Hunnemannia 26
Hyacinth Bean 25
Hypoxen 55

I

Iberis 34
Iceland Poppy 35
Insecticides 17-49-50-51-52
Ipomea 26
Iris 37
Ismene 36

J

Job's Tears 24
Kale 10
Kem 55
Kochia 26
Kohl Rabi 10

Kopper King 50
Kopper Queen 50
Kopper Shield 50
Kryocide 50

L

Labels 56
Lady Slipper 23
Lantana 27
Larkspur 27
Lathyrus 35
Lavatera 27
Lavender 10-35
Lavendula 35
Lawn Edger 57
Lawn Mowers 58
Lawn Seed 0-1
Lawn Sweepers 58
Leek 10
Lee's Remedies 60
Leg Bands 62
Leptosyne 27
Lethane 440 50
Lettuce 11
Lice Killer 60
Lilies 35-36
Lime Sulphur 50
Linaria 27
Linum 27-35
Lobelia 27-35
London Purple 50
Loro 50
Love-in-a-Mist 28
Lunaria 35
Lupine 27-35
Lychnis 35

M

Madeira Vine 36
Mallow 27
Mangel-Beets 5
Marigold 27
Marjoram, Sweet 10
Marvel of Peru 25
Matricaria 28
Matthiola 28
Meadow Rue 36
Meo 36
Mexican Fire Bush 26
Mexican Fire Plant 26
Mexican Sunflower 31
Michaelmas Daisy 33
Mignonette 28
Millett 46
Milorganite 54
Mimulus 28
Mole Killer 55
Mole Traps 55-59
Monkey Flower 28
Montbretia 36
Moon Flower 26
Morning Glory 26
Moss Rose 30
Mourning Bride 30
Mouse Poisons 55
Mushroom Spawn 13
Muskmelon 12
Musk Plant 28
Mustard 12
Myosotis 35
Mystic Mat 59

N

Naphthalene Flakes 50
Nasturtium 28
Nemesia 28
Nemophila 28
Nepeta 35
Nest Eggs 62
Nico-Fume 50
Nicotiana 28
Nierembergia 28
Nigella 28
Nitragin 47
No-Crow 51

O

Oats 47
Oenothera 28-35
Ogen Products 51
Okra 13
Onion Plants 14
Onions 14
Onion Sets 14
Oriental Poppy 35
Oxalis 36
Oyster Plant 19

P

Painted Daisy 35
Painted Tongue 30
Pan-a-min 60
Pansies 28
Paper Pots 56
Paris Green 17-51
Parsley 13
Parsnip 16
Passion Flower 35
Peach Bells 33
Peanuts 16
Peas 15
Peat 54
P. D. Spray 51
Pencil, Weather-proof 56
Pentstemon 35
Peonies 39

Pepper 16
Pepper Grass 8
Periwinkle 31
Pestroy 51
Petunia 29
Phacelia 28
Phlox, Annual 28
Phlox, Hardy 35
Physostegia 35
Pickpaste 60
Pimpernel 22
Pincushion Flower 30
Pinks 25
Planet Jr. Tools 56
Plantabbs 55
Plant Bands 56
Plant Food 54-55
Plant Props 58
Platycodon 35
Poison Wheat 65
Pomo-Green 51
Pop Corn 8
Poppies 29-35
Portulacca 30
Potatoes 17
Potato Planter 57
Poultry Feeds 60
Poultry Litter 61
Poultry Yeast 60
Power Mowers 58
Pruning Paint 50
Pruning Shears 57
Pulver 60
Pumpkin 18
Purina Feeds 60
Putty 56
Pyrethrum 35
Pyrocide Dust 51
Pyrox 51

Q

Queen Anne's Lace Flower 30
Queen Anne's Thimble 26

R

Rabbit Repellent 17-51
Rabbit Supplies 63
Radish 18
Raffia 56
Rakes 57
Ranunculus 36
Rape 48
Raspberry Bushes 45
Rat Poison 55
Red Arrow Spray 51
Red Hot Poker 36
Red River Potato 17
Reed Canary Grass 46
Reel 59
Regal Lily 35-36
Remedies 60
Reseda 28
Rhubarb Roots 43
Ricinus 24
Rock Cress 33
Rock Garden Mix-ture 30-36
Rodent Destroyers 55
Rodent Repellent 51
Ro-Ho Cultivator 57
Romneya 36
Root Feeder 58
Rootone 51
Rose Mallow 34
Roses 40-65
Rose Spray 51
Roteicide 51
Rotenone 51
Rudbeckia 30-36
Rutabaga 19
Rye 47

S

Saffron 10
Sage 10
Salpiglossis 30
Salsify 19
Salt 63
Salvia 30-36
Sand Verbena 22
Sani-Soil 57
Sanvitalia 36
Saponaria 36
Satin Flower 35
Sav-a-Day Bleach 62
Scabiosa 30-36
Scarlet Runner Bean 28
Scarlet Sage 30
Schizanthus 30
Scrum 17-51
Scutellaria 36
Sea Lavender 36
Seasoning 63
Seed-bed Heater 59
Seeders 56
Semesan 17-51
Shasta Daisy 33
Shep's Plant Spray 51
Shrubbery 41-42
Sickles 57
Skull Cap 36
Slug Shot 51
Small Fruits 44-45
Smoke Salt 63
Snapdragon 22
Snarol 51
Snow in Summer 33
Soil Soaker 58

Soil Test Kit 55
Sorghum 48
Sorrel 19
Soy Beans 4-48
Speltz 48
Spider Plant 24
Spinach 19
Sprayers 53
Spray Soap 51
Squash 20
Statice 30-36
Stocks 30
Stock Spray 60
Stock Tonic 60
Stop 51
Strawberry Plants 45
Straw Flower 26
Sudan Grass 47
Sugar Beets 5
Sugar Cane 48
Sulfadene 63
Sulphate of Iron 52
Sulphur 52
Summer Cypress 26
Summer Savory 10
Sunflower 26-48
Swan River Daisy 23
Sweet Peas 31
Sweet Sultan 24
Sweet William 30-36
Swiss Chard 20

T

Tagetes 30
Tampala 19
Tartar Emetic 52
Tassel Flower 23
Terogen 51
Terro Ant-kill 52
Terro Roach Killer 52
Thalictrum 36
Thermometers 63
Thermostat Wafers 62
Thunbergia 31
Thyme 10
Tigridia 36
Timothy 46
Tithonia 31
Tobacco Dust 52
Tobacco Powder 60
Tobacco Seed 20
Tomato 20-21
Tomato Dust 52
Tonax 60
Tool Holder 57
Tool Set 59
Torenia 31
Train-Etts 59
Transplantone 52
Traps 55-59
Tree Pruners 57
Trees, Ornamental 43
Trees, Shade 43
Tree Tanglefoot 52
Triad 52
Triogen 51
Tritoma 36
Tuberose Flowered Tobacco 28
Tuberose 36
Tubertone 17
Tucocide 62
Tufted Pansies 32
Turnip 19
Twine 56
Twist-Ems 56

U

Valeriana 36
Vapo Spray 60
Vapotone 52
Vegetable and Flower Dust 52
Vegetable Plants 19
Venidium 31
Verbena 31-36
Vermiculite 57
Veronica 36
Vigoro 54
Vinea 31
Viola 32
Virginian Stock 32
Volek 52

W

Walko Tablets 61
Wallflower 32-36
Water Cress 8
Water Lilies 38
Watermelon 13
Waterwand 58
Weeders 57
Weed Killers 52
Weedone 52
Wheat 47
Wheat Germ 63
Wheat Germ Oil 62
Wild Cucumber Vine 32
Windbreak Trees 43
Wind Flower 36
Wishbone Flower 31
Worm Remedies 60

X Y Z

Xeranthemum 32
Yeast 60-63
Zinnia 32
Zotox 52

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Saint Paul, Minnesota

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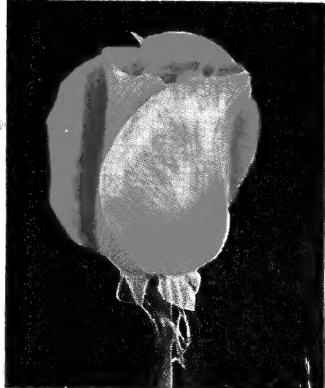
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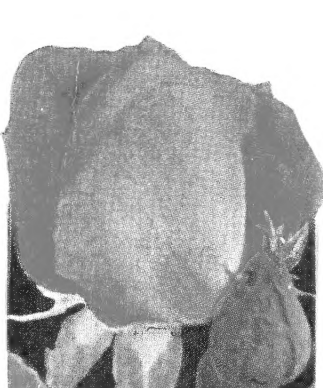
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Talisman



Charlotte Armstrong



Mme. Jules Bouche



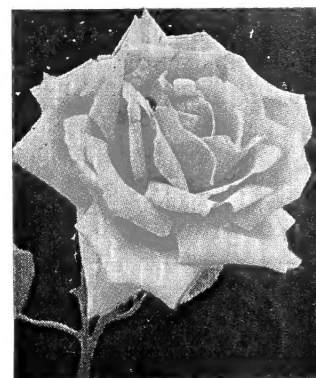
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Poinsettia

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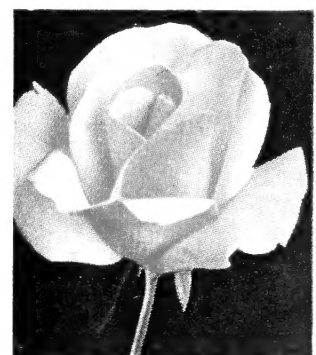
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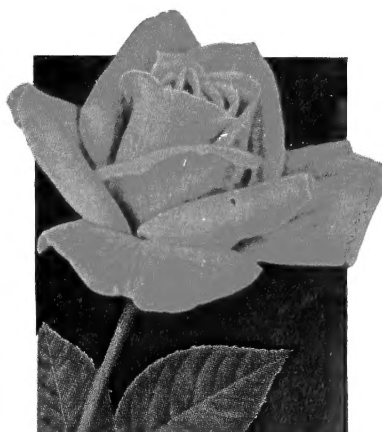
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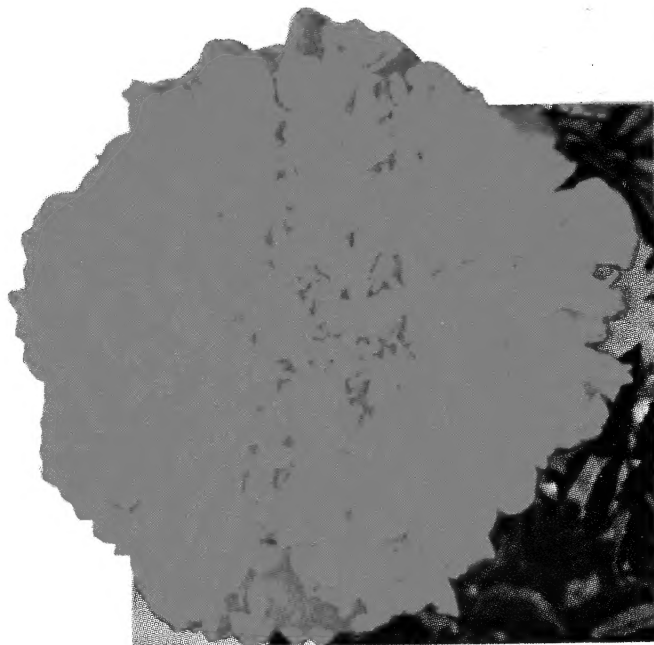
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